

FIG. 1

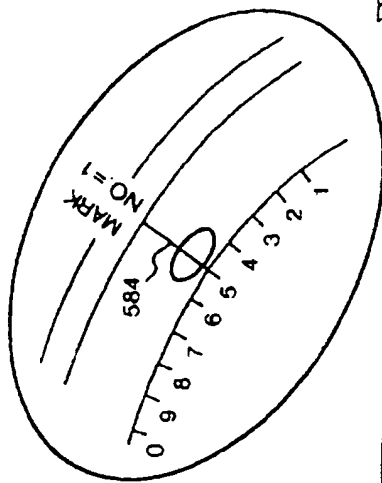


FIG. 2B

NONREFLECTIVE PITS ARE
FORMED IN RADIAL DIRECTION

FIG. 2C

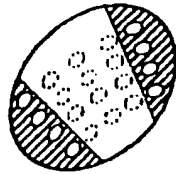


FIG. 2A

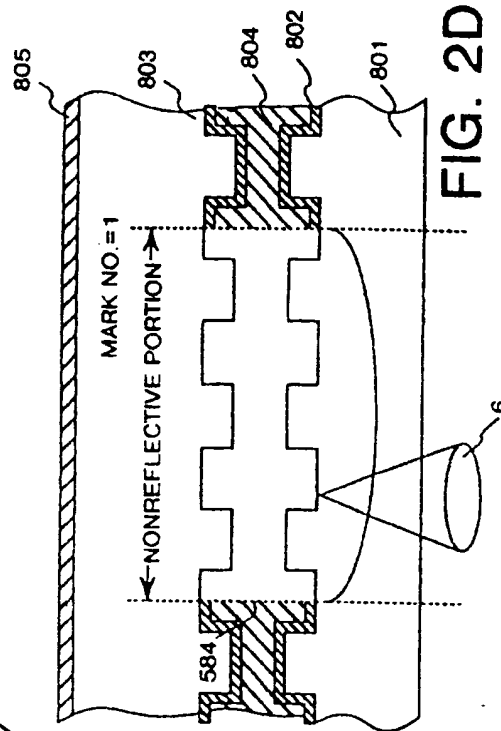
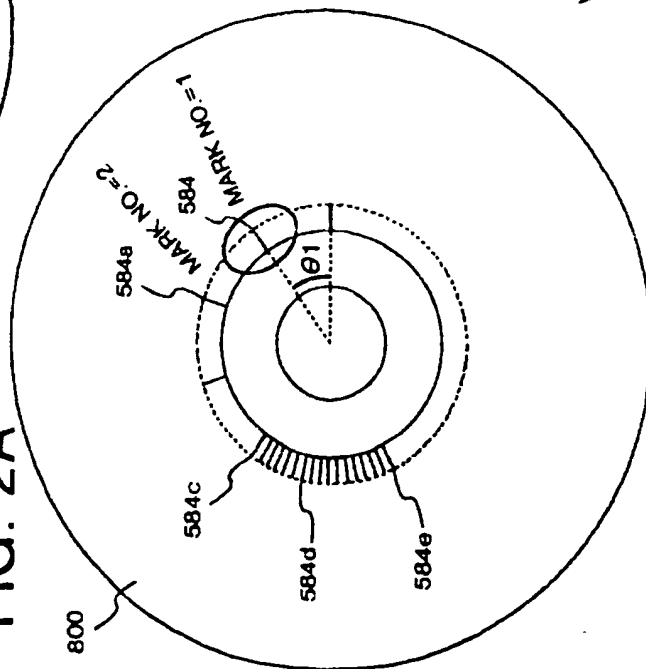


FIG. 2D

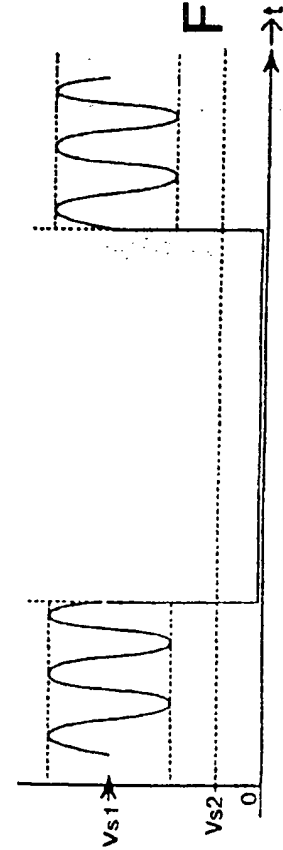


FIG. 2E

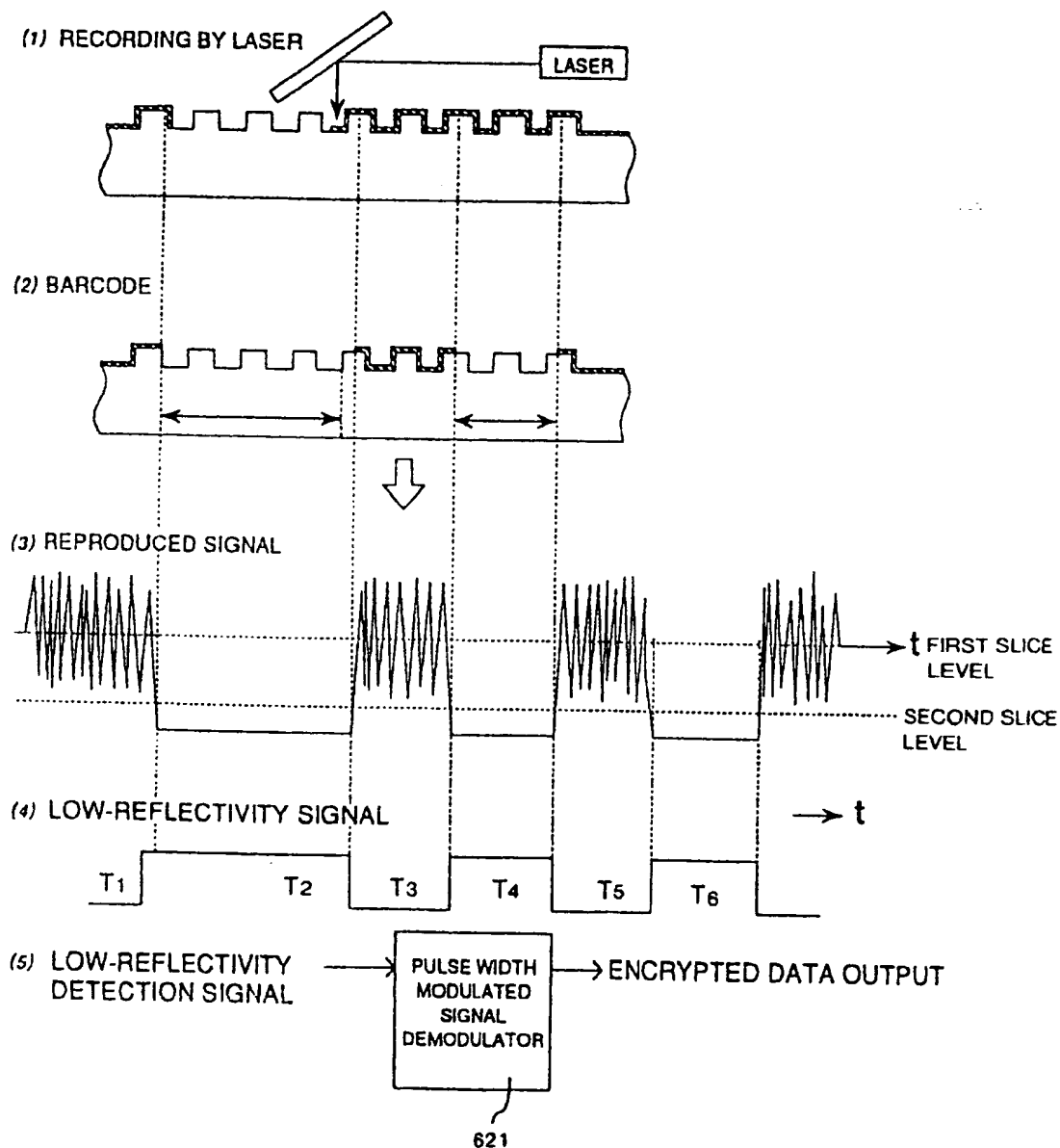


FIG. 3

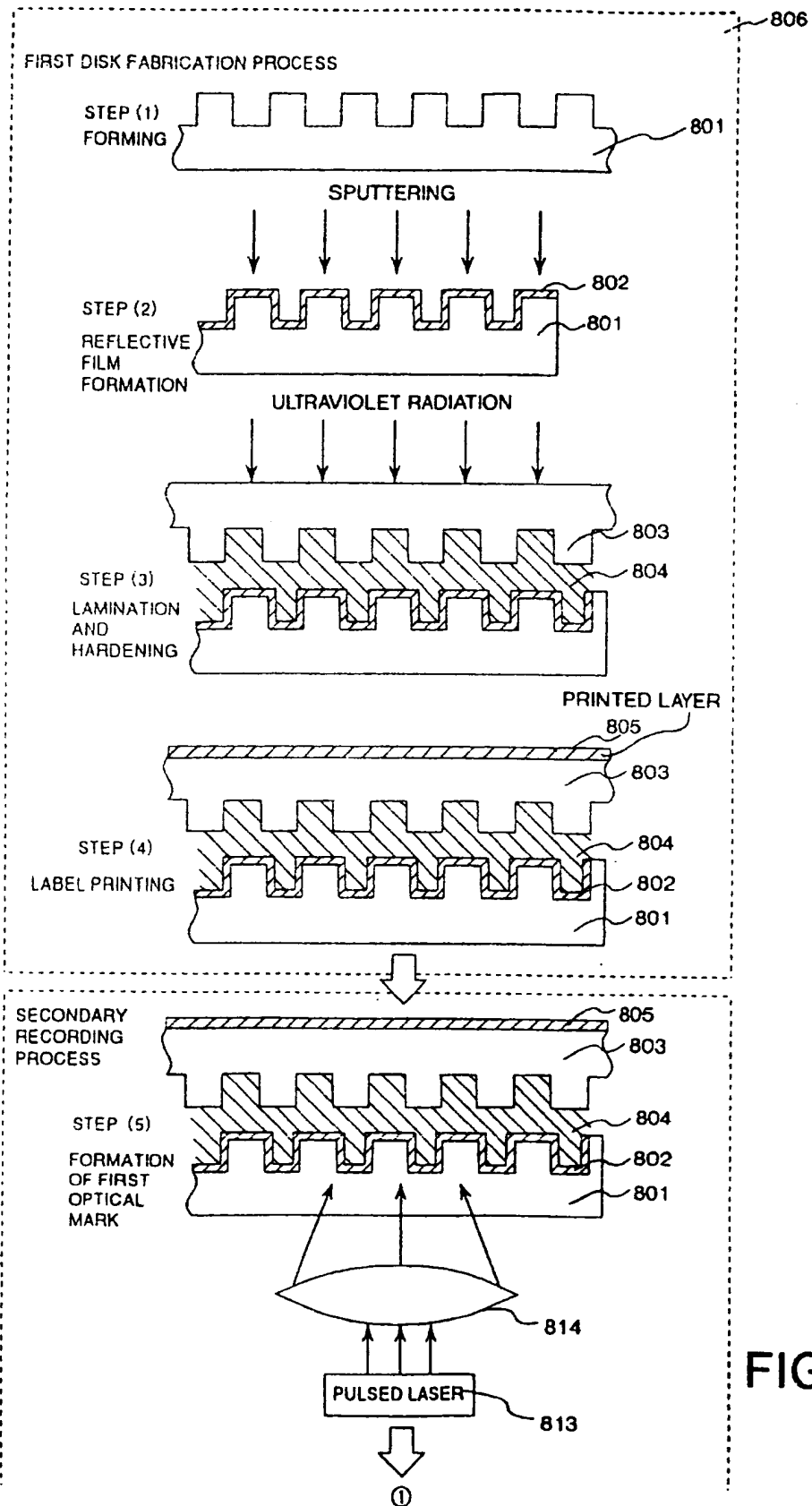
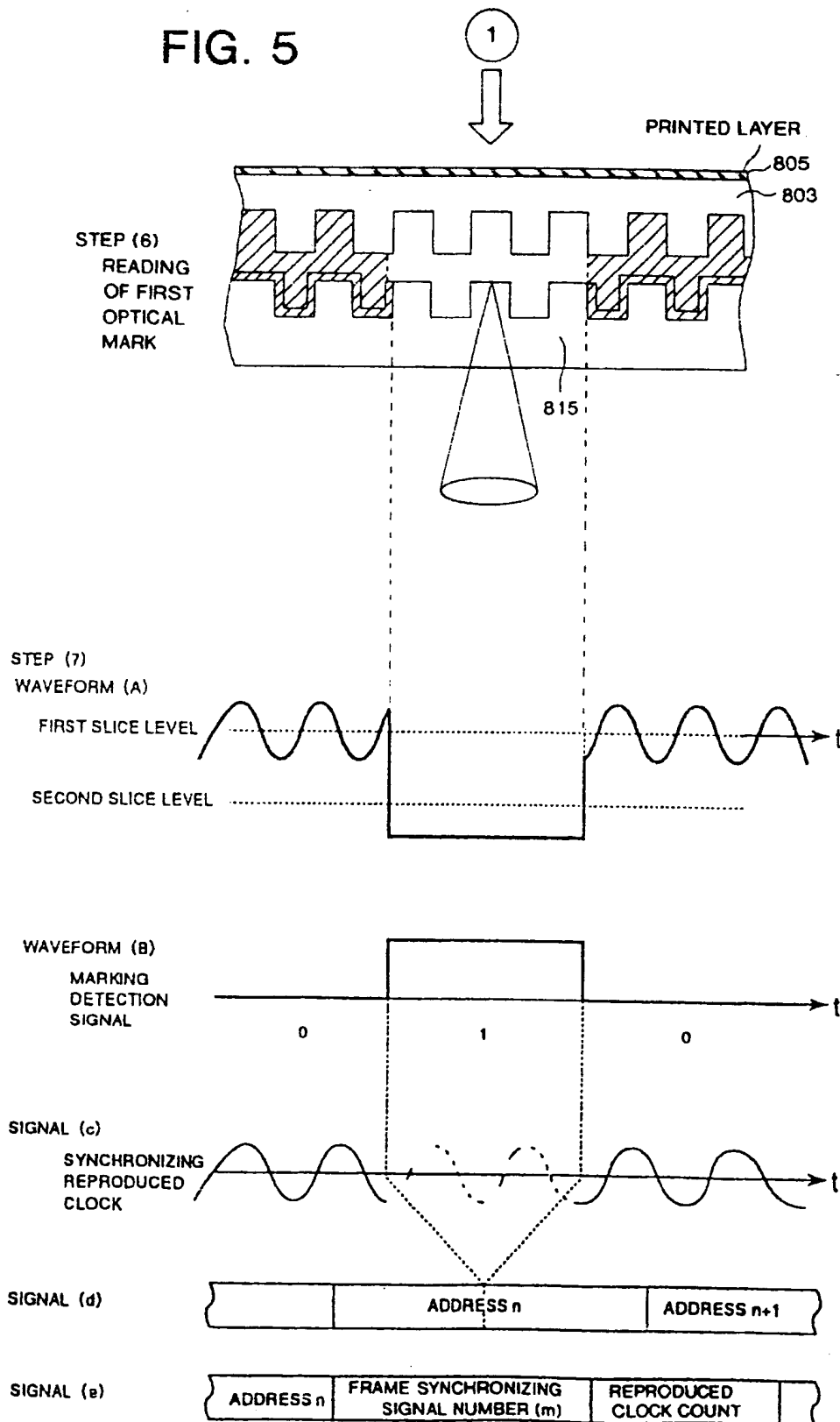


FIG. 4

FIG. 5



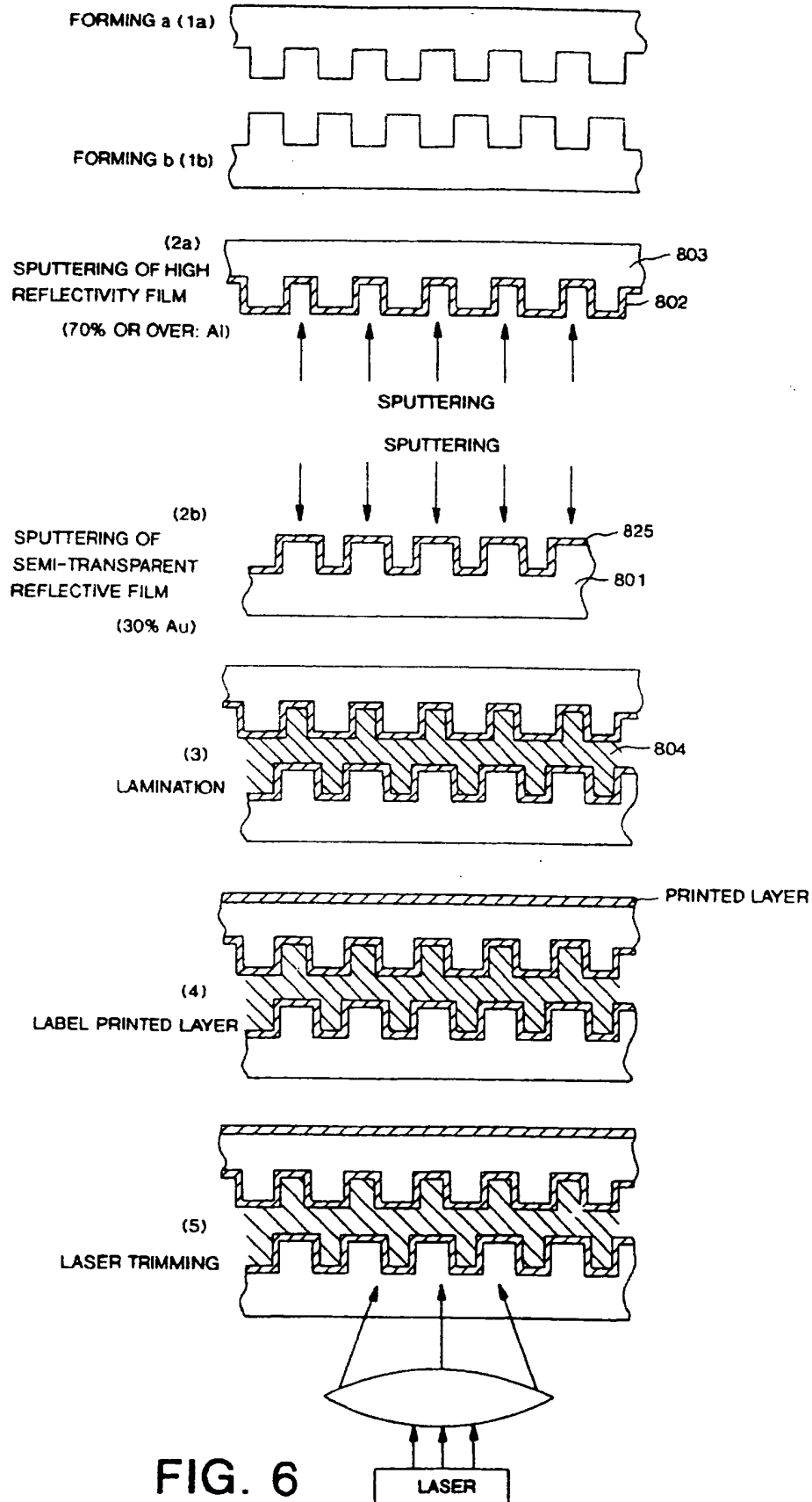
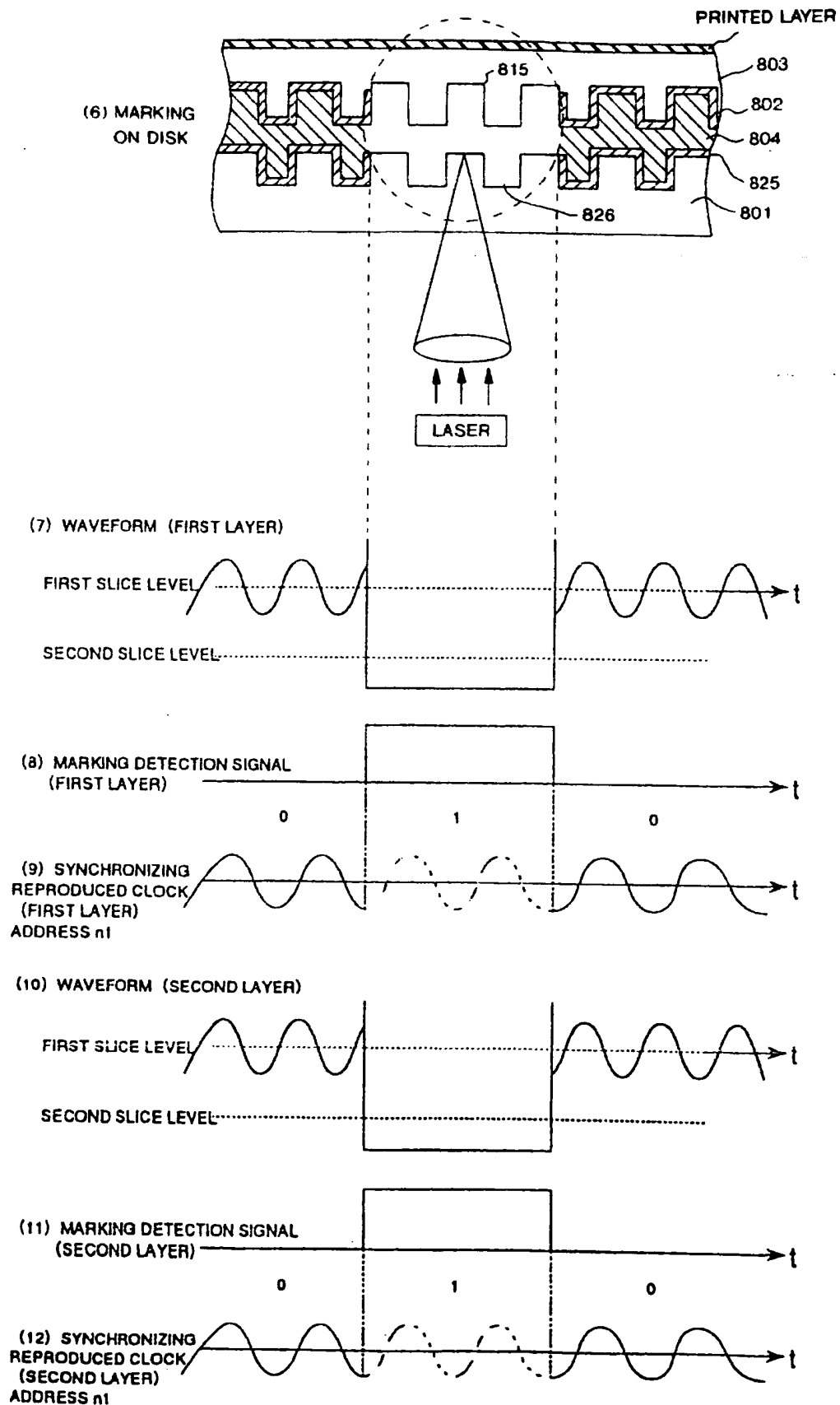


FIG. 6



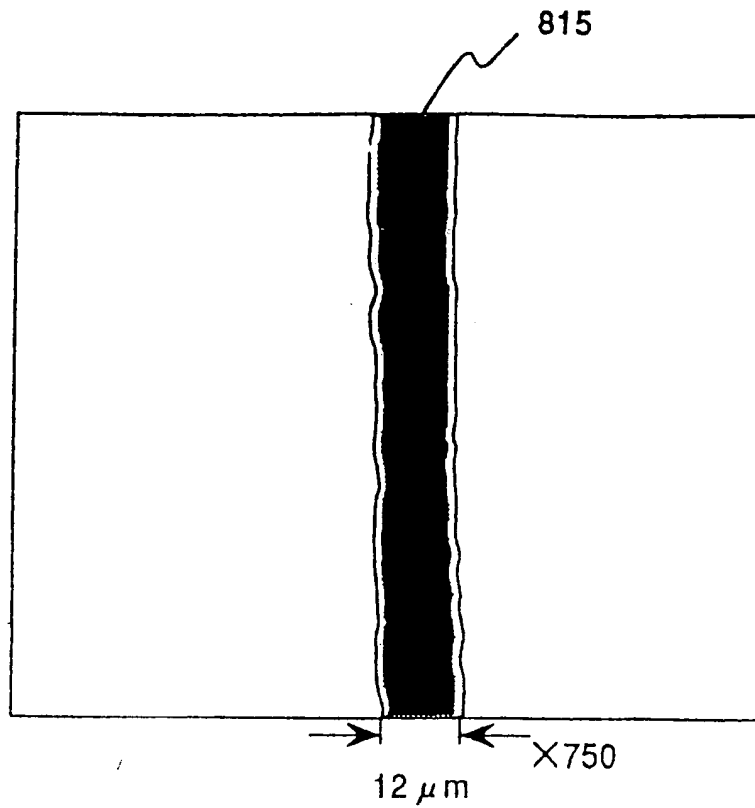


FIG. 8A

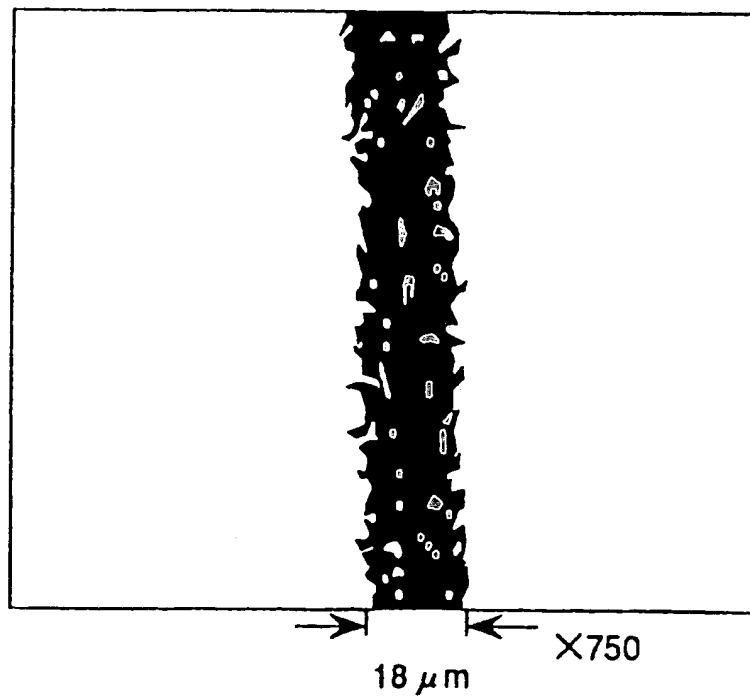
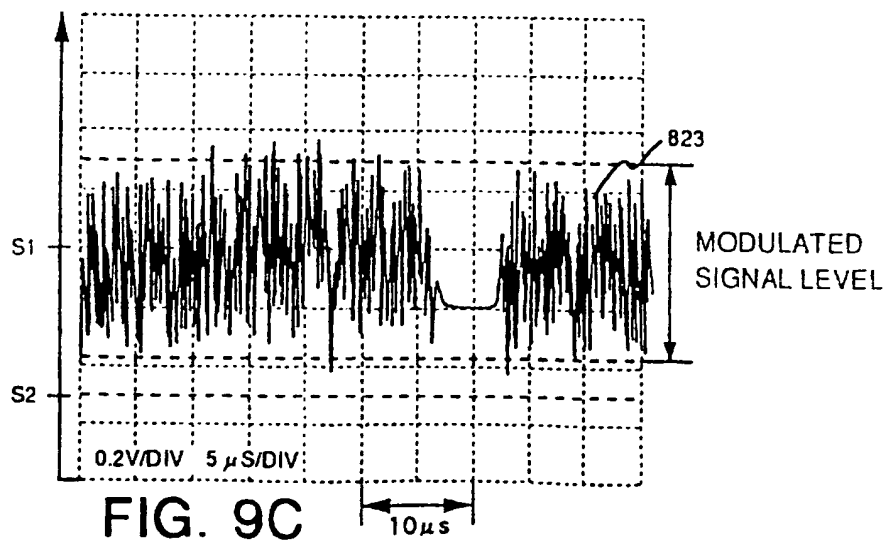
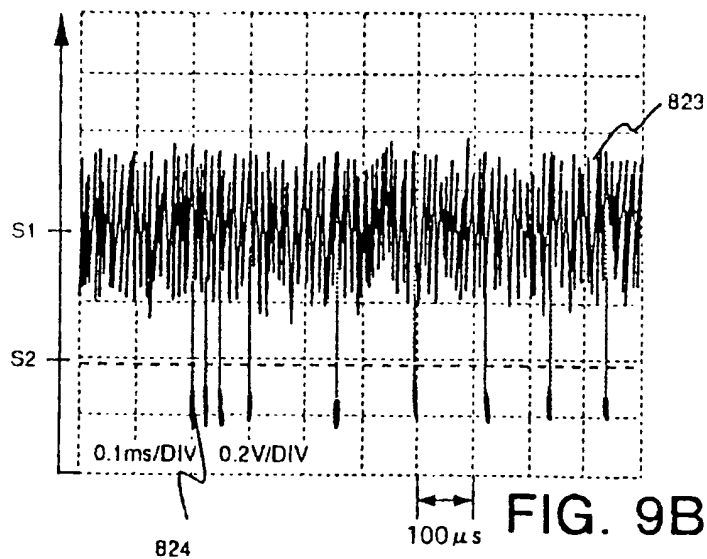
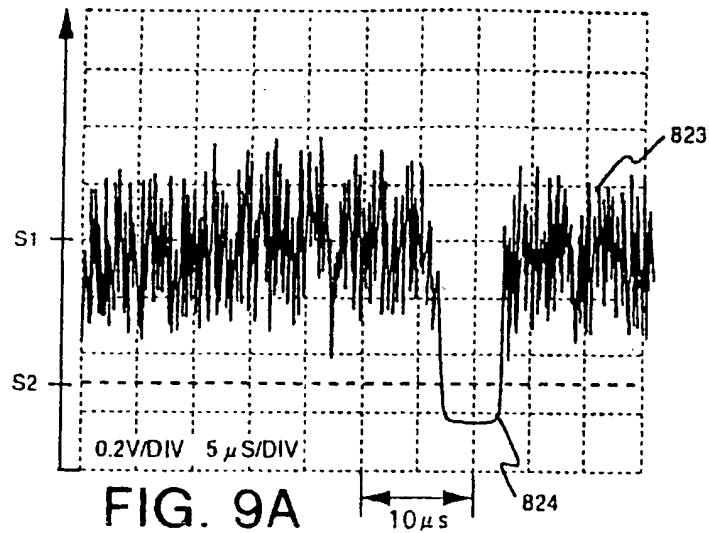


FIG. 8B

FIG. 8A



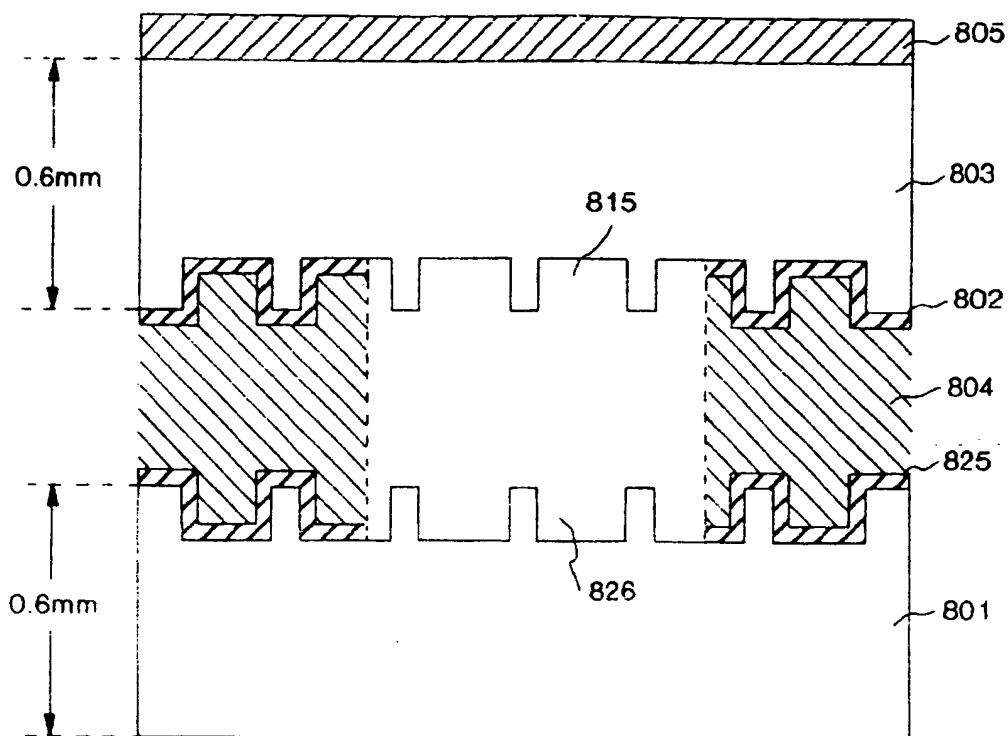


FIG. 10A

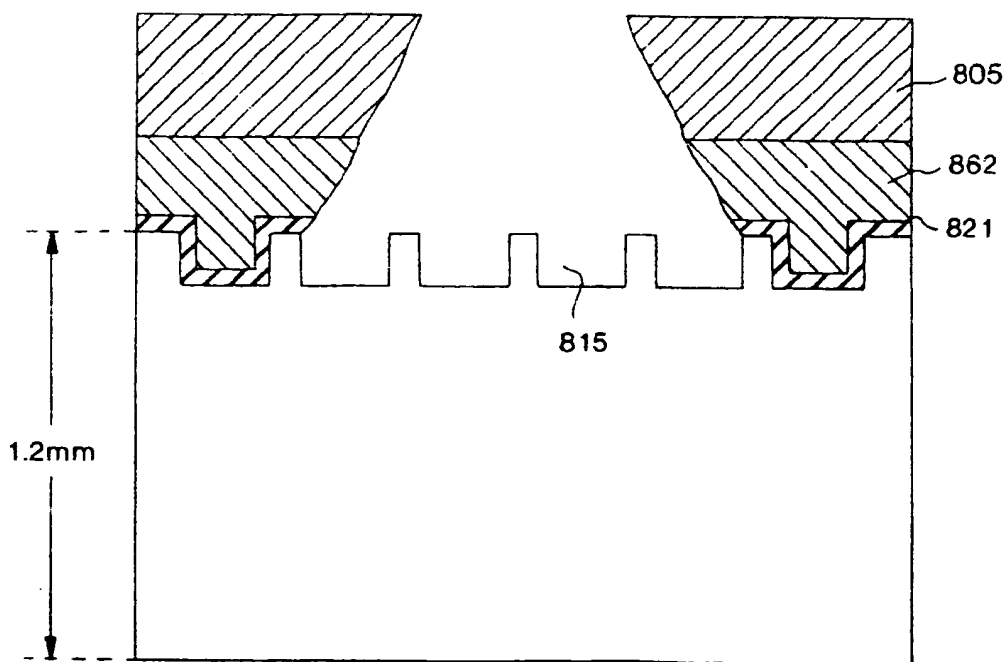


FIG. 10B

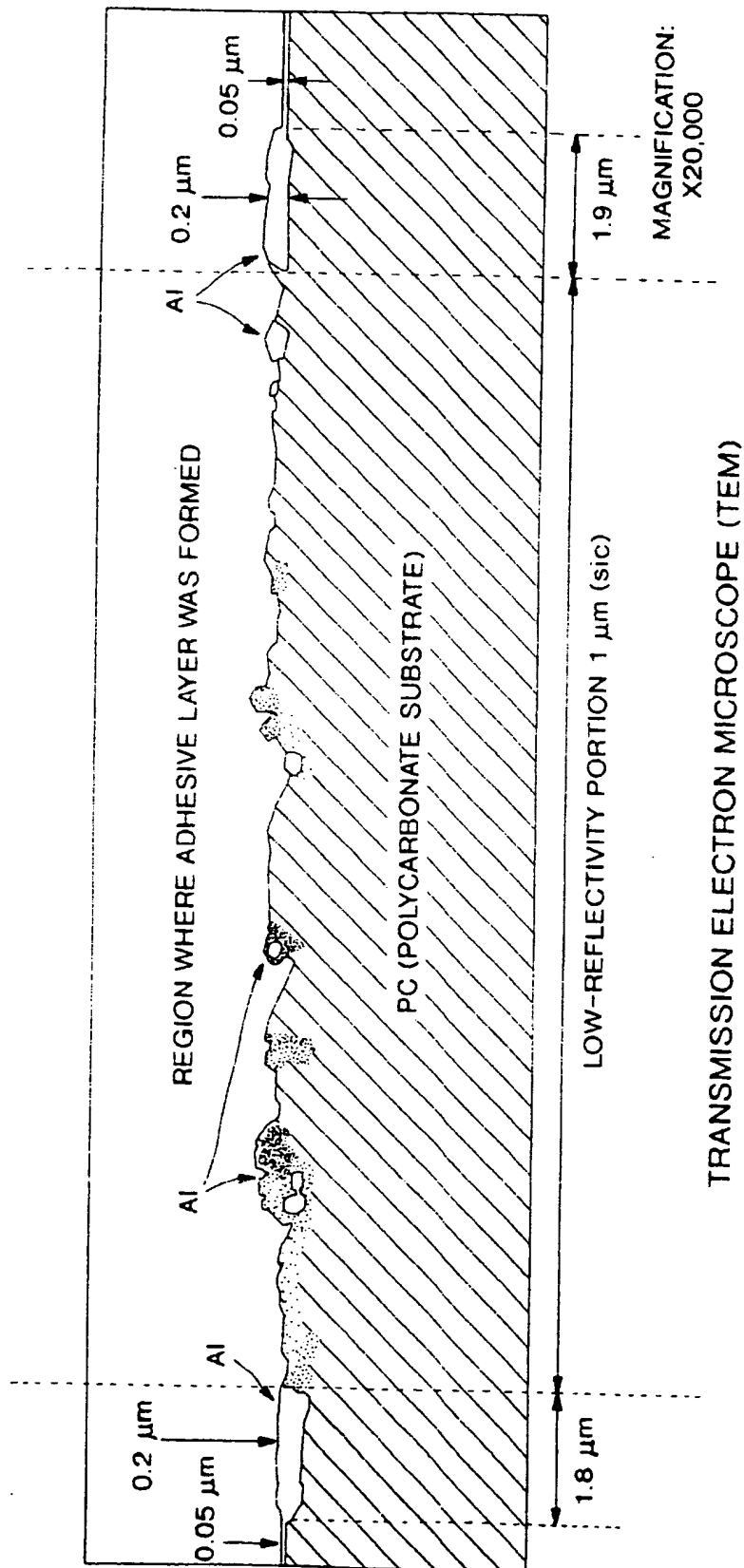


FIG. 11

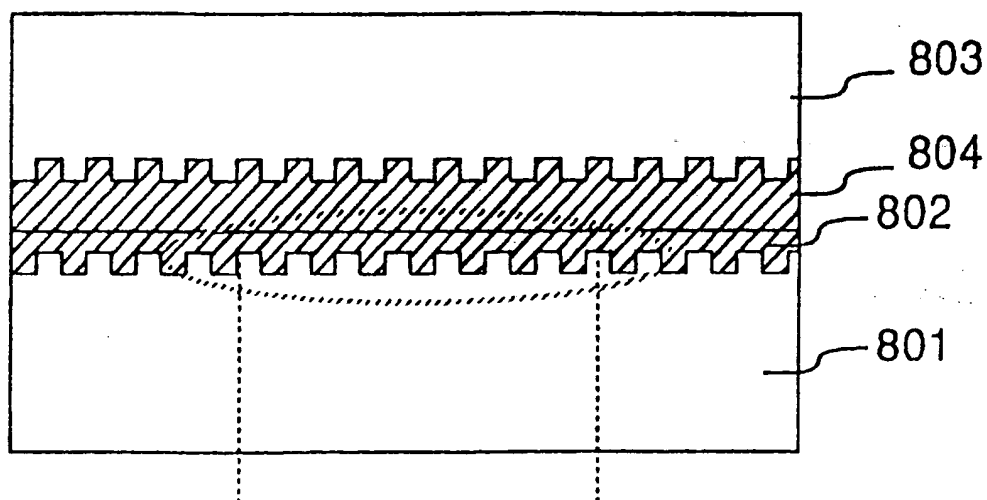


FIG. 12A

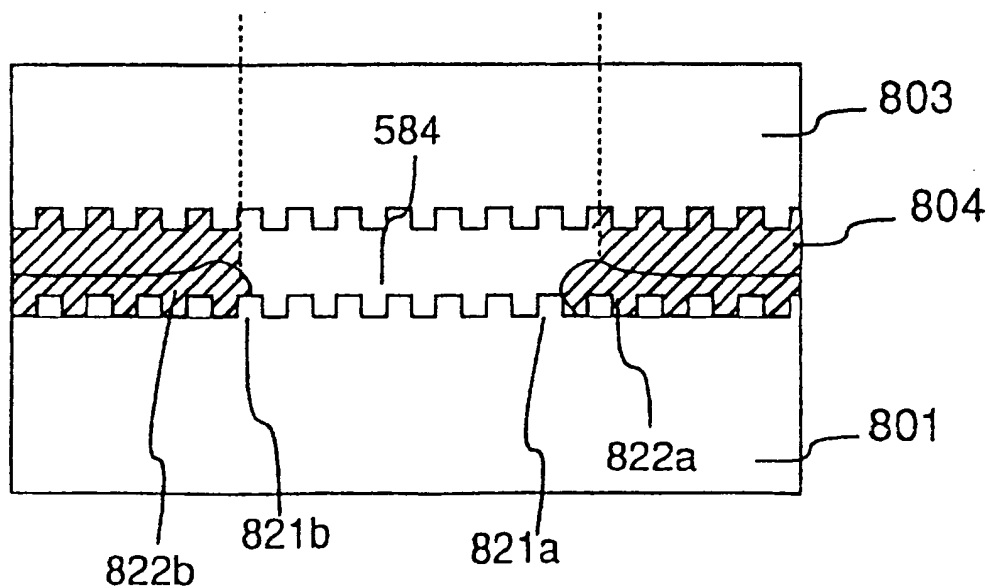
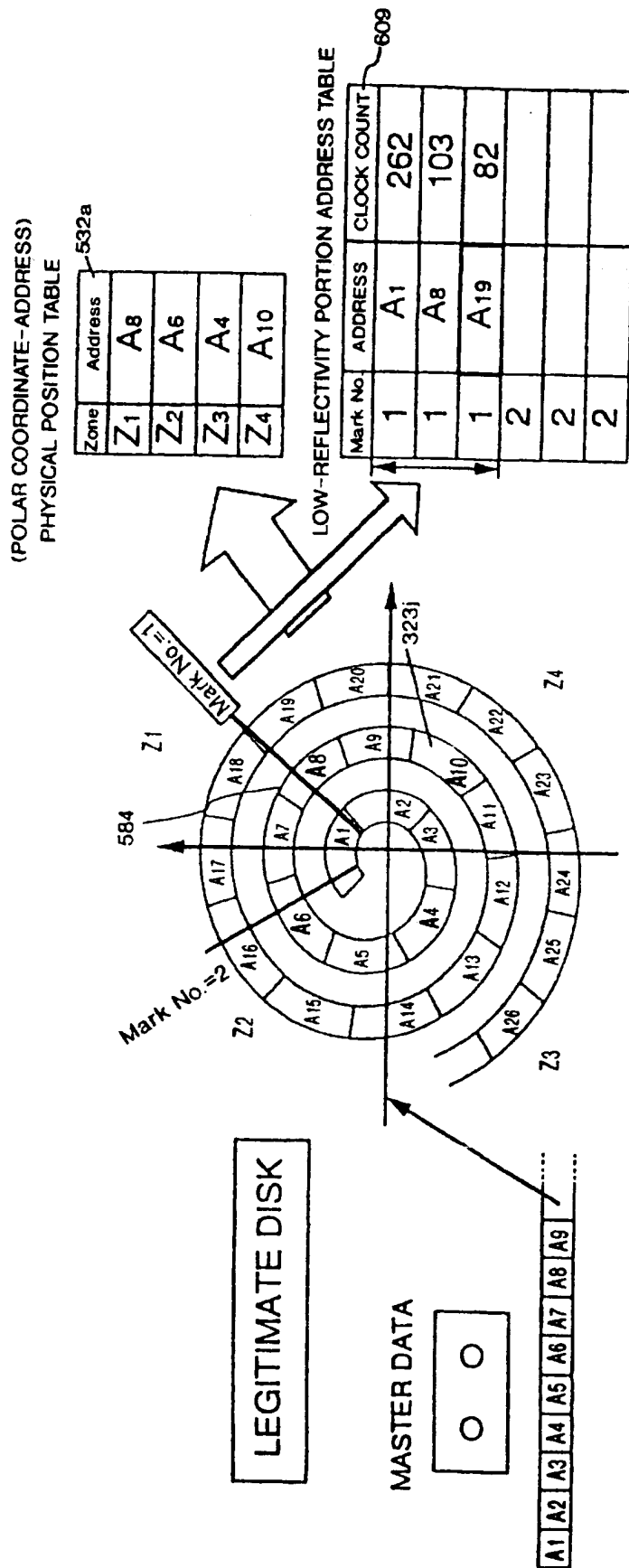


FIG. 12B



MASTER DATA



ILLEGALLY DUPLICATED CD

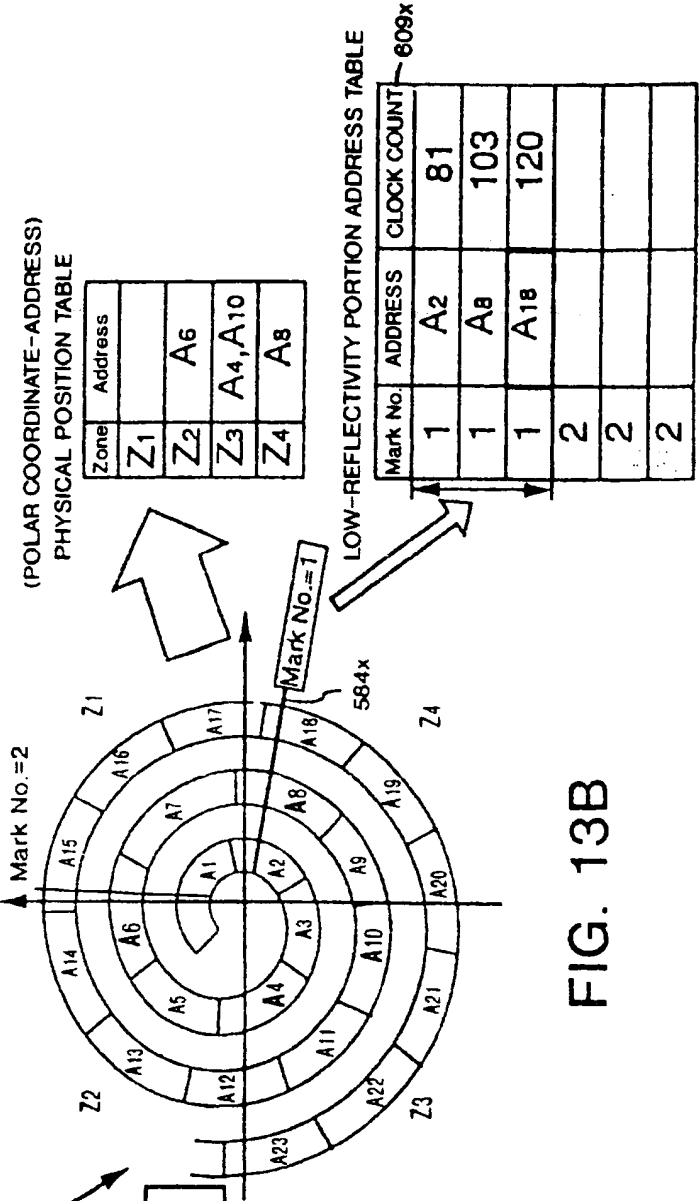


FIG. 13B

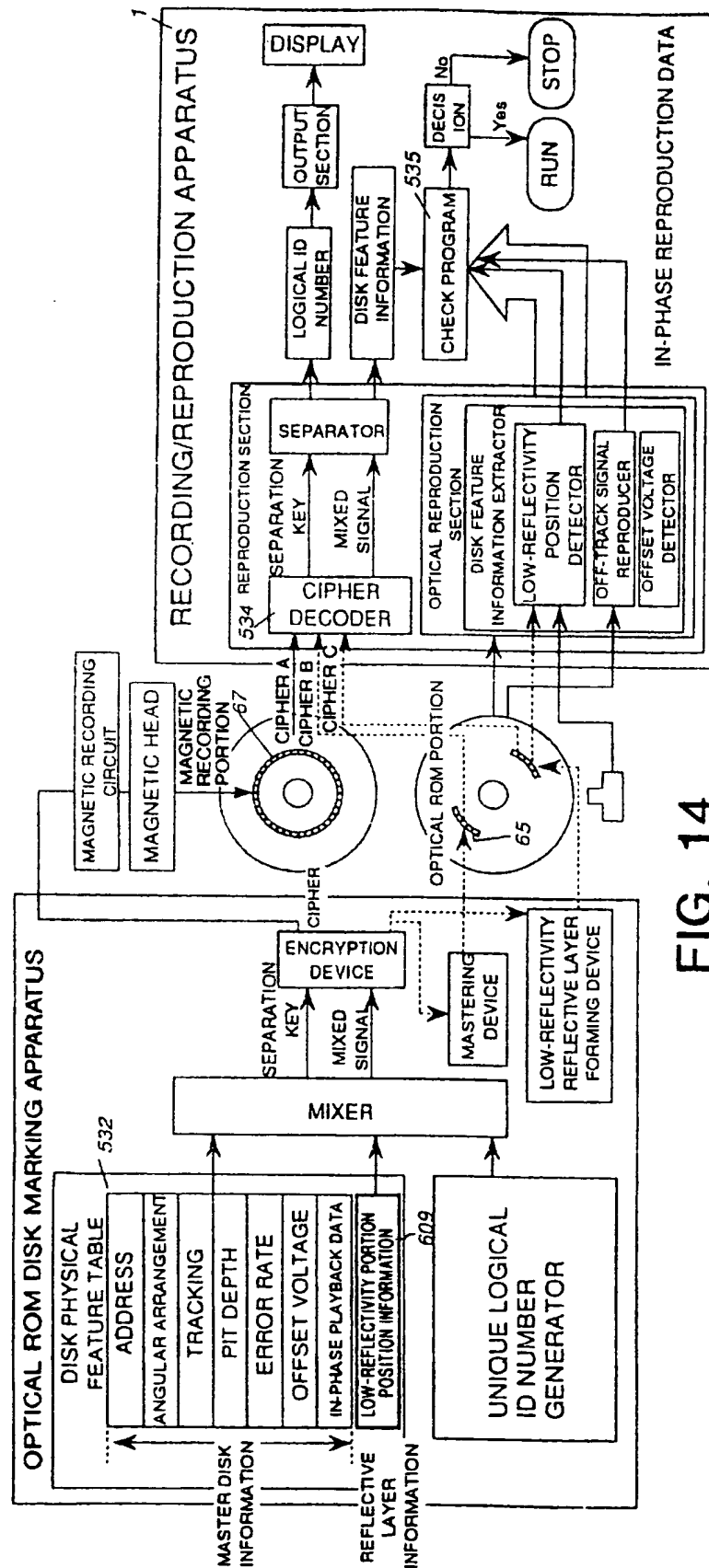
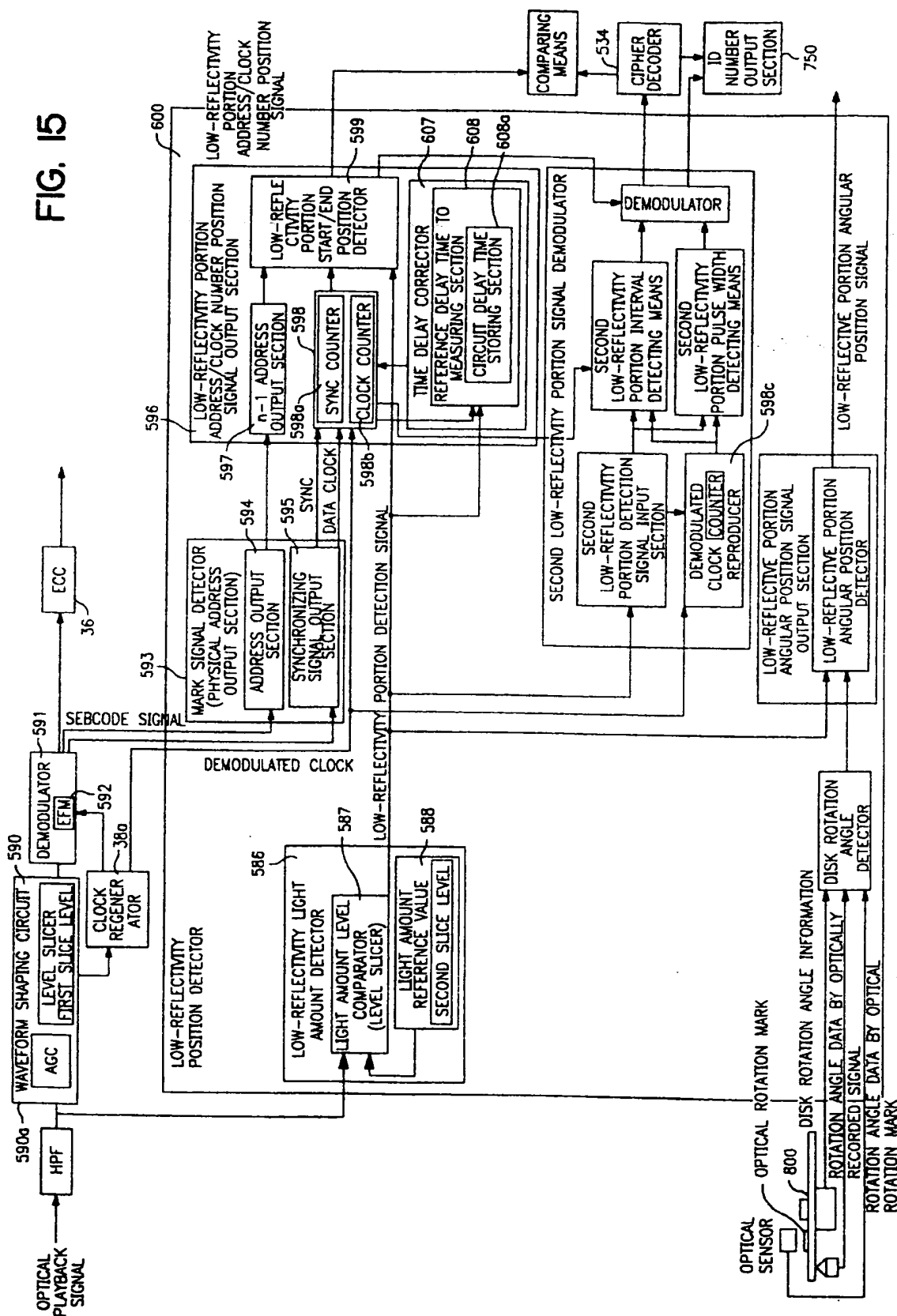
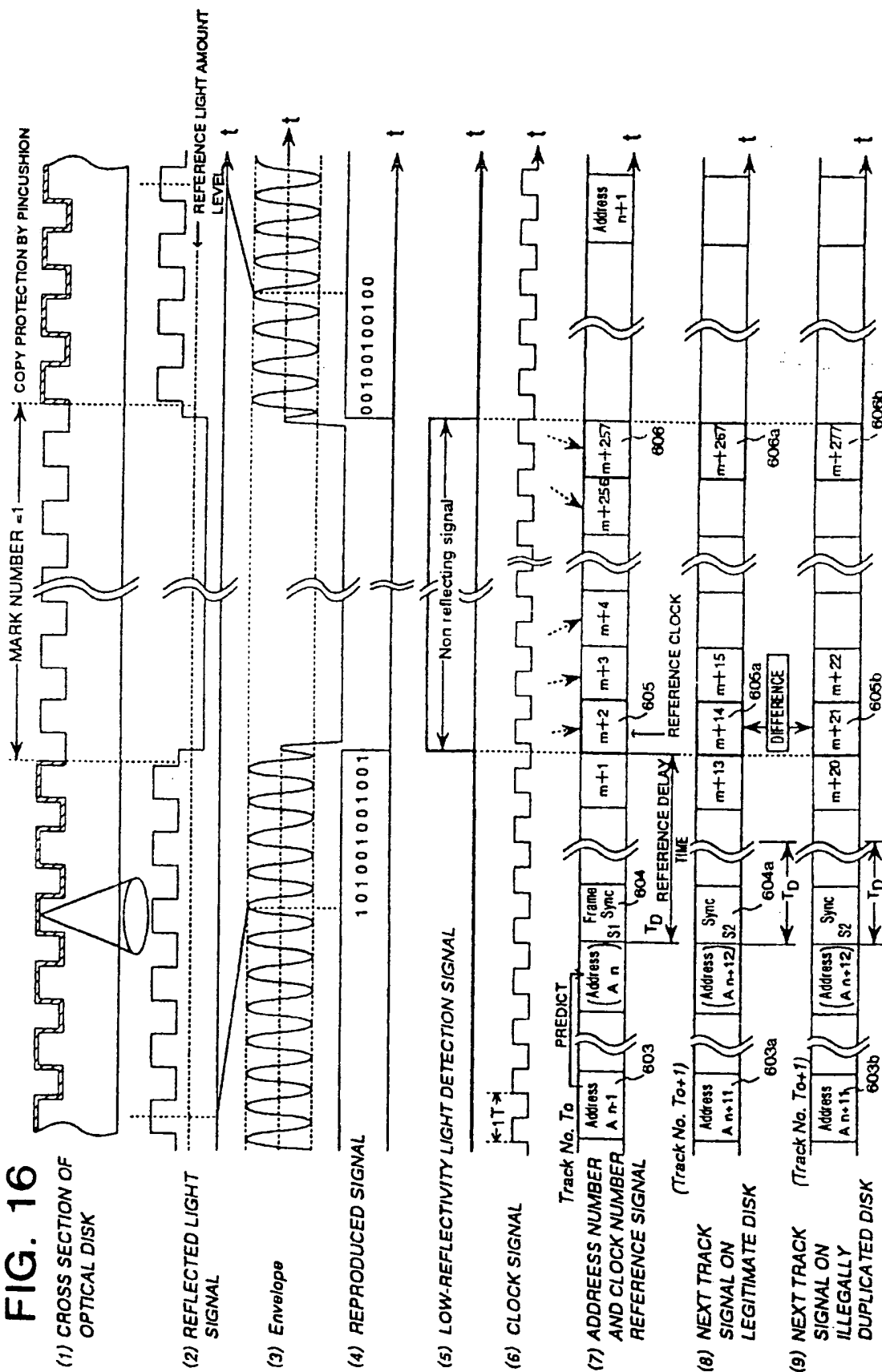


FIG. 14

Fig. 15



(1) CROSS SECTION OF OPTICAL DISK



LEGITIMATE DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

609

MARK NO.	START POSITION			END POSITION		
	ADDRESS	Sync No	CLOCK NUMBER	ADDRESS	Sync No	CLOCK NUMBER
1	A n	S ₁	m+2	n		m+257
1	A n+12	S ₂	m+14	n+12		m+267
1	A n+23		m+25	n+23		m+300
:	:		:	:		:
2	A n+1		m+15	n+1		m+160
2	A n+13		m+85	n+13		m+250
2	A n+24		m+68	n+24		m+210
10	A n+9					
10						

PLANNING

ILLEGALLY DUPLICATED DISK

LOW-REFLECTIVITY PORTION ADDRESS TABLE

609x

MARK NO.	START POSITION			END POSITION		
	ADDRESS	Sync No	CLOCK NUMBER	ADDRESS	Sync No	CLOCK NUMBER
1	n	S ₁	m+2	n		m+257
1	n+12	S ₂	m+21	n+12		m+277
1	n+22		m+4	n+22		m+230
:	:		:	:		:
2	n+1		m+36	n+1		m+190
2	n+13		m+120	n+13		m+281
2	n+25			n+25		
10	n+9					
10						

FIG. 17

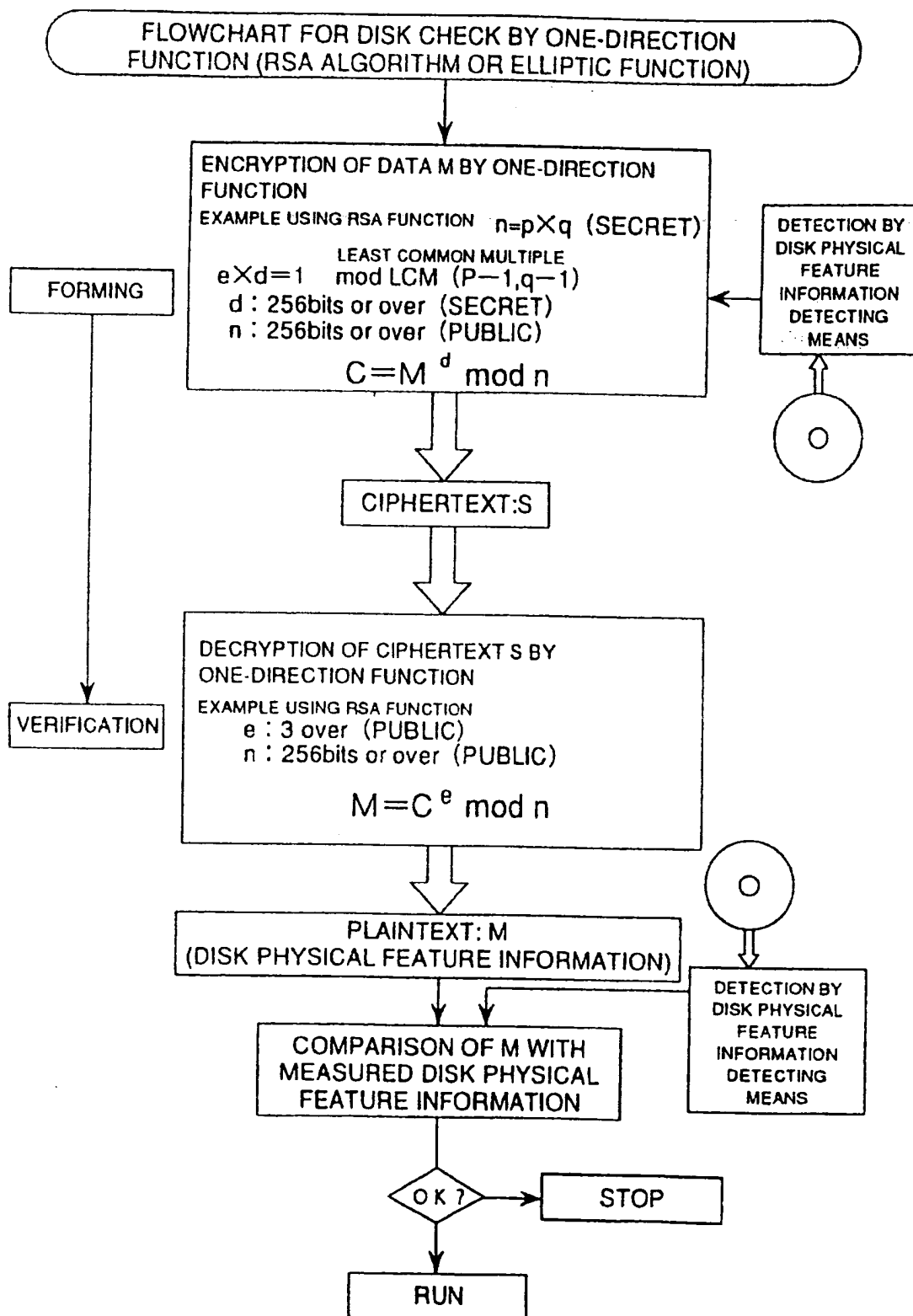


FIG. 18

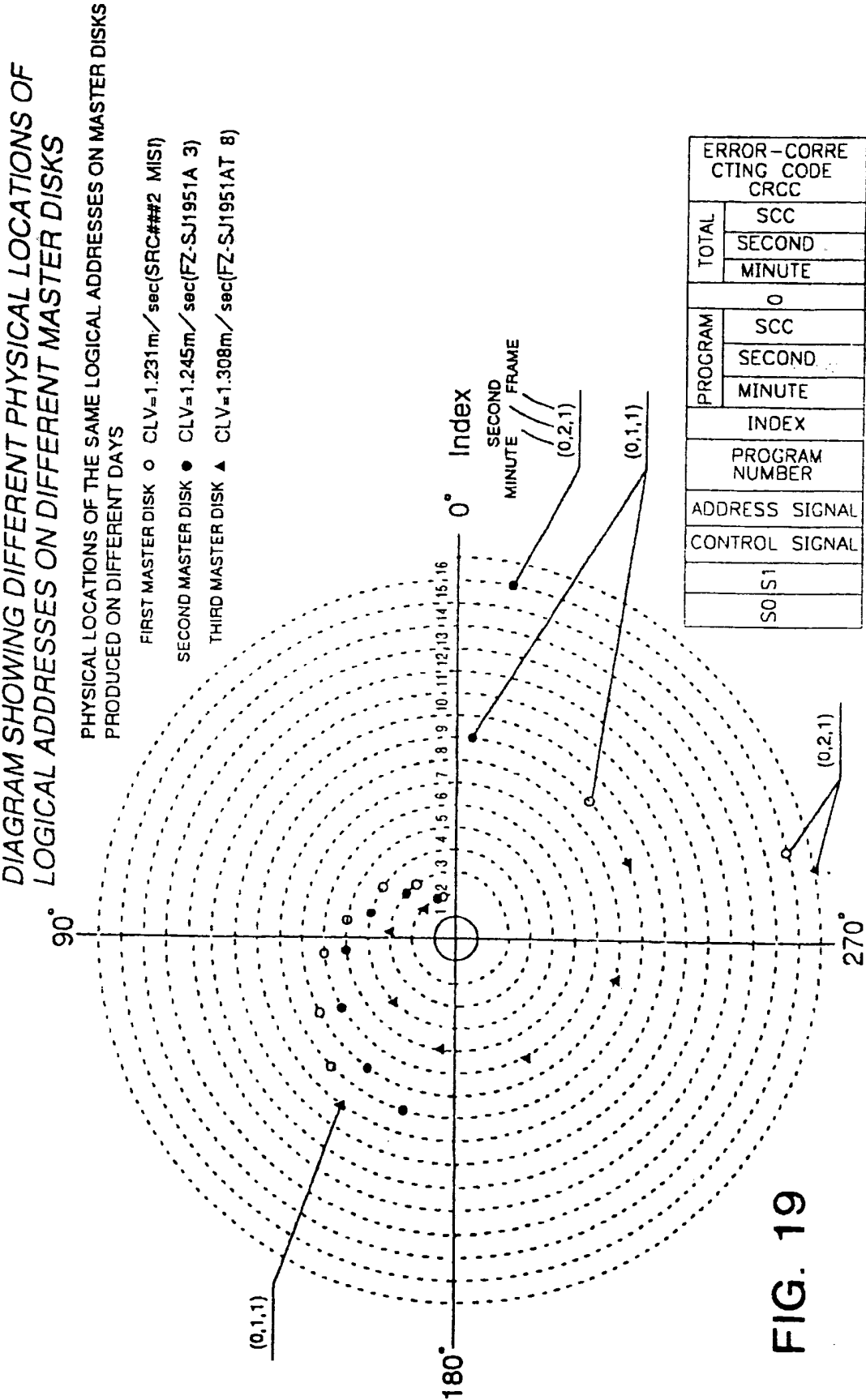


FIG. 19

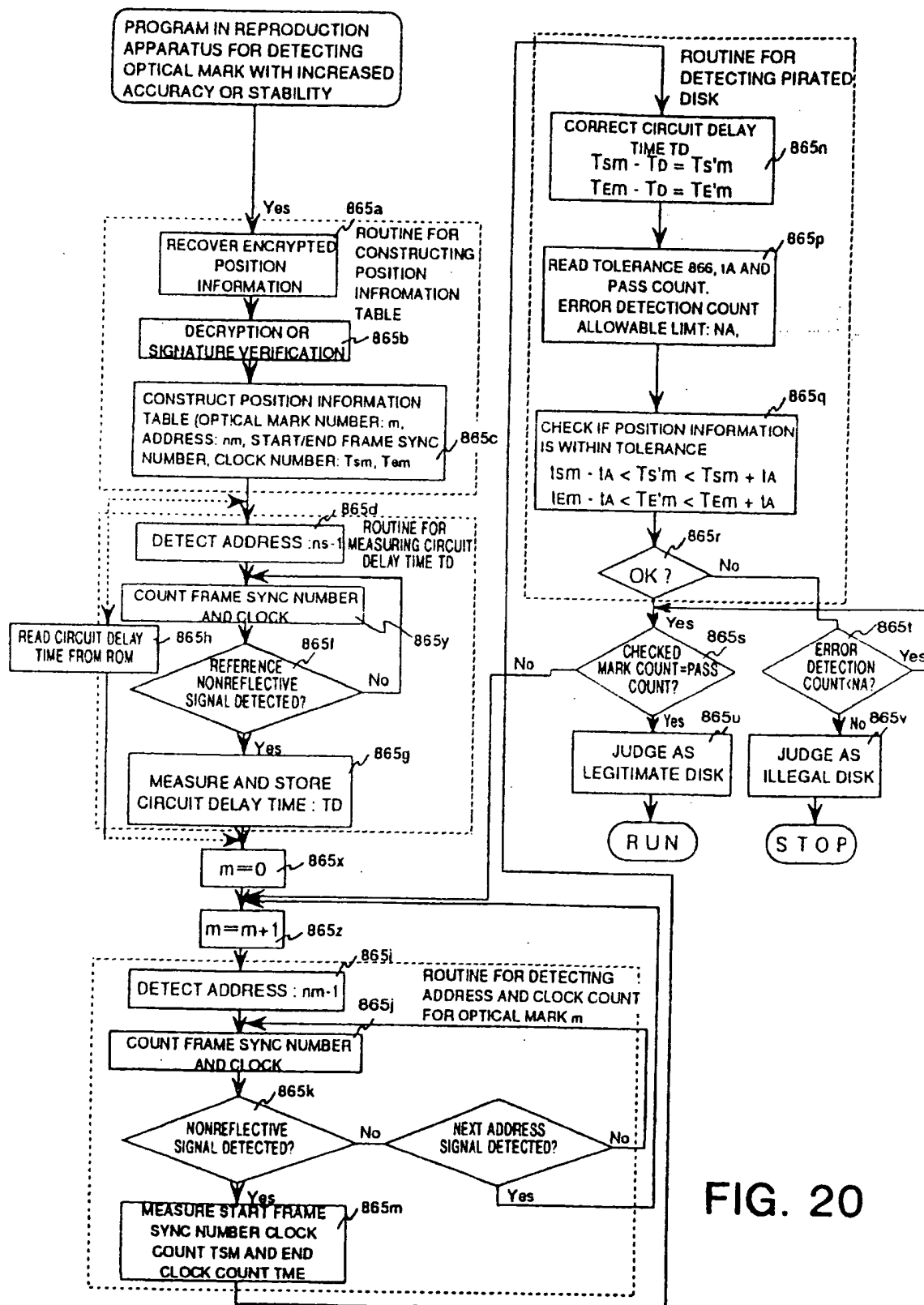
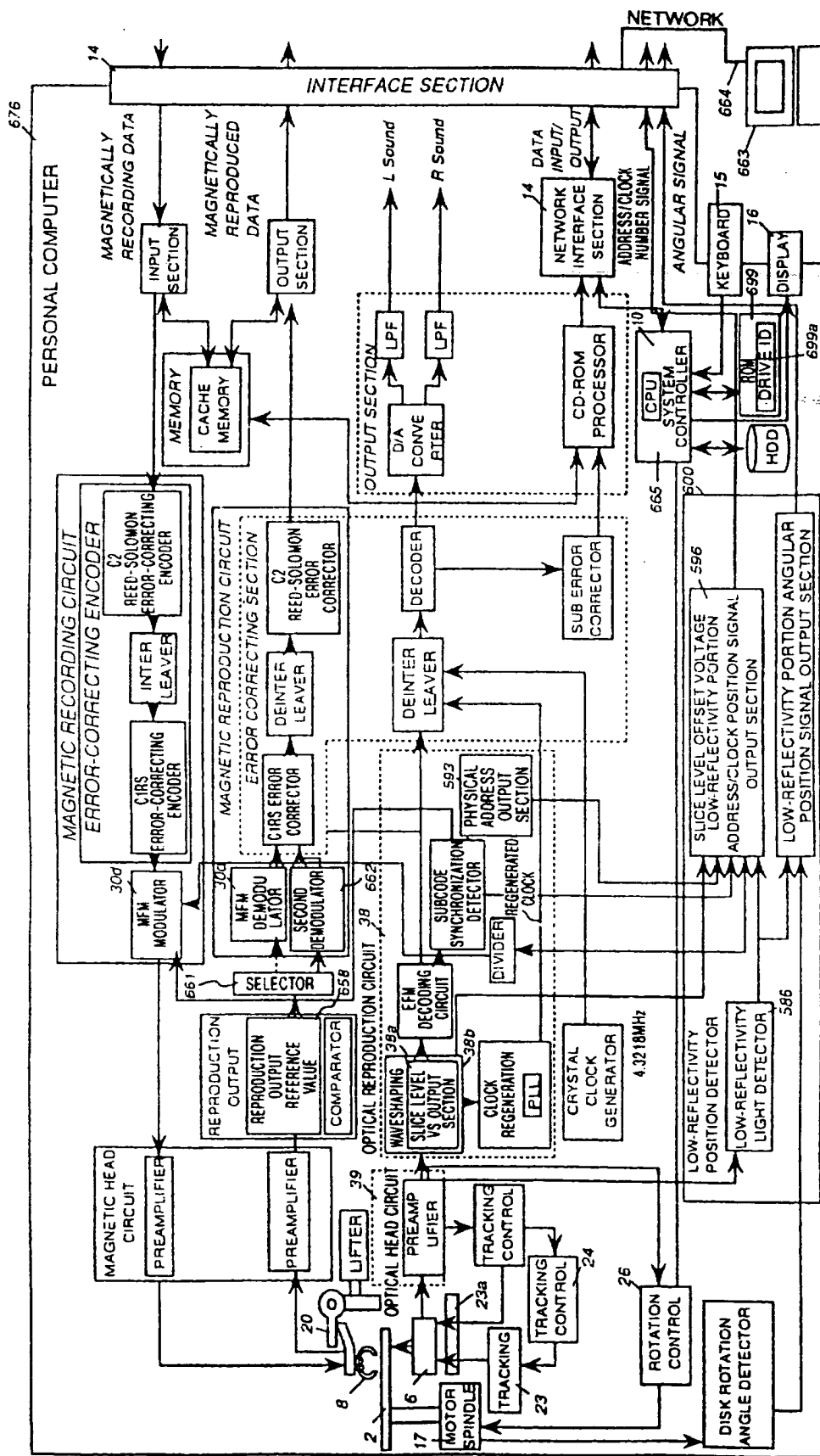
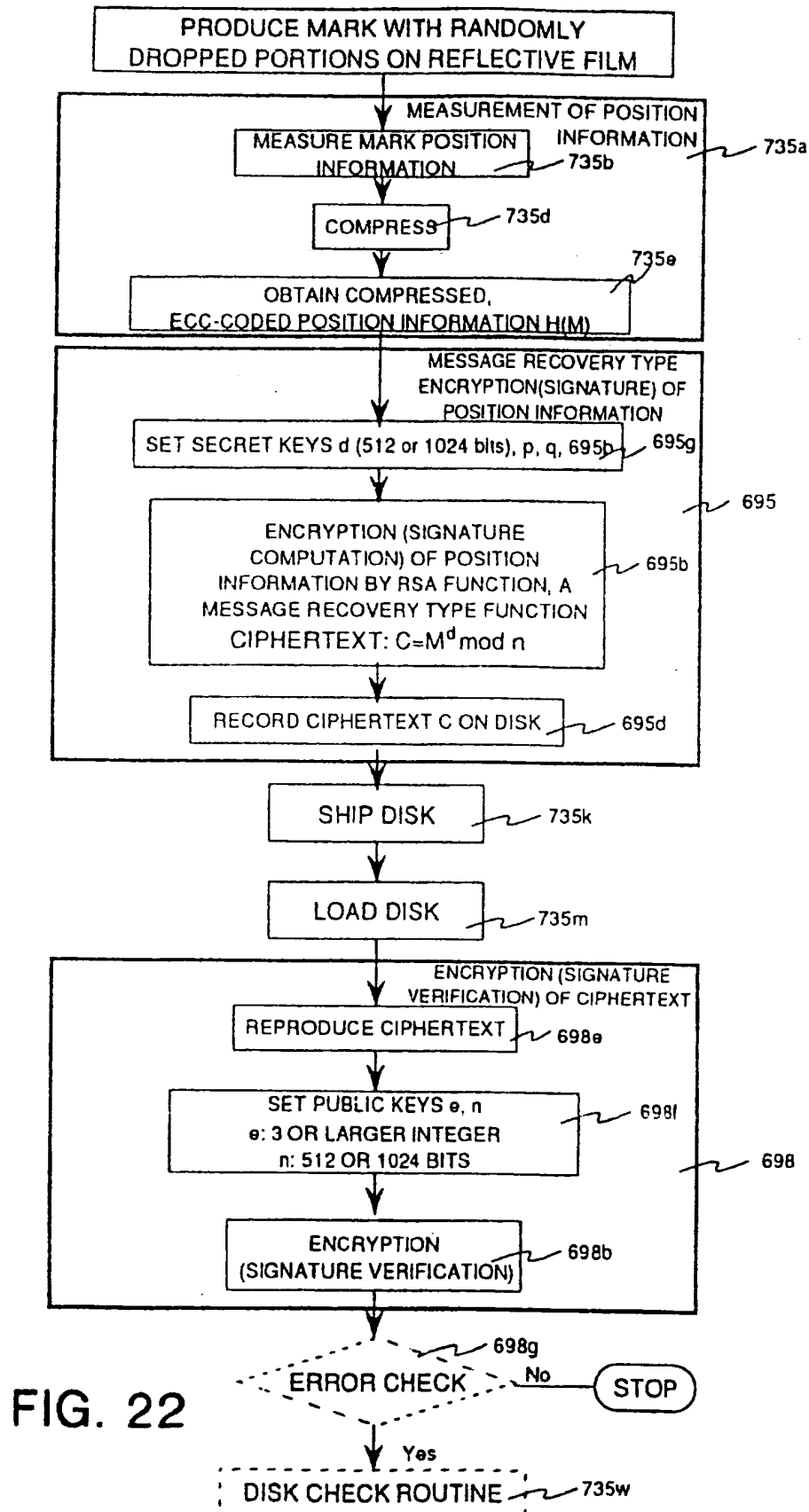


FIG. 20





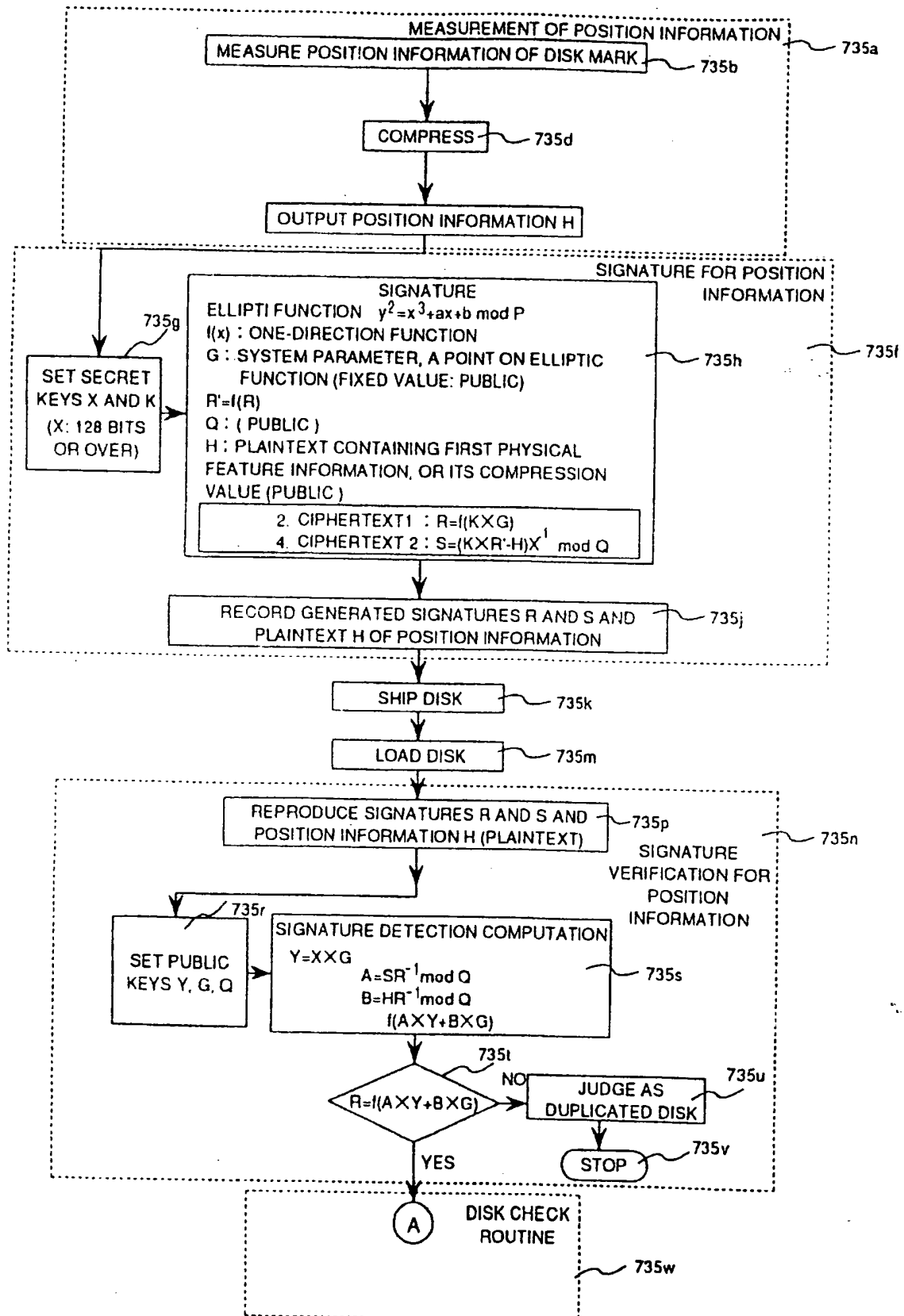


FIG. 23

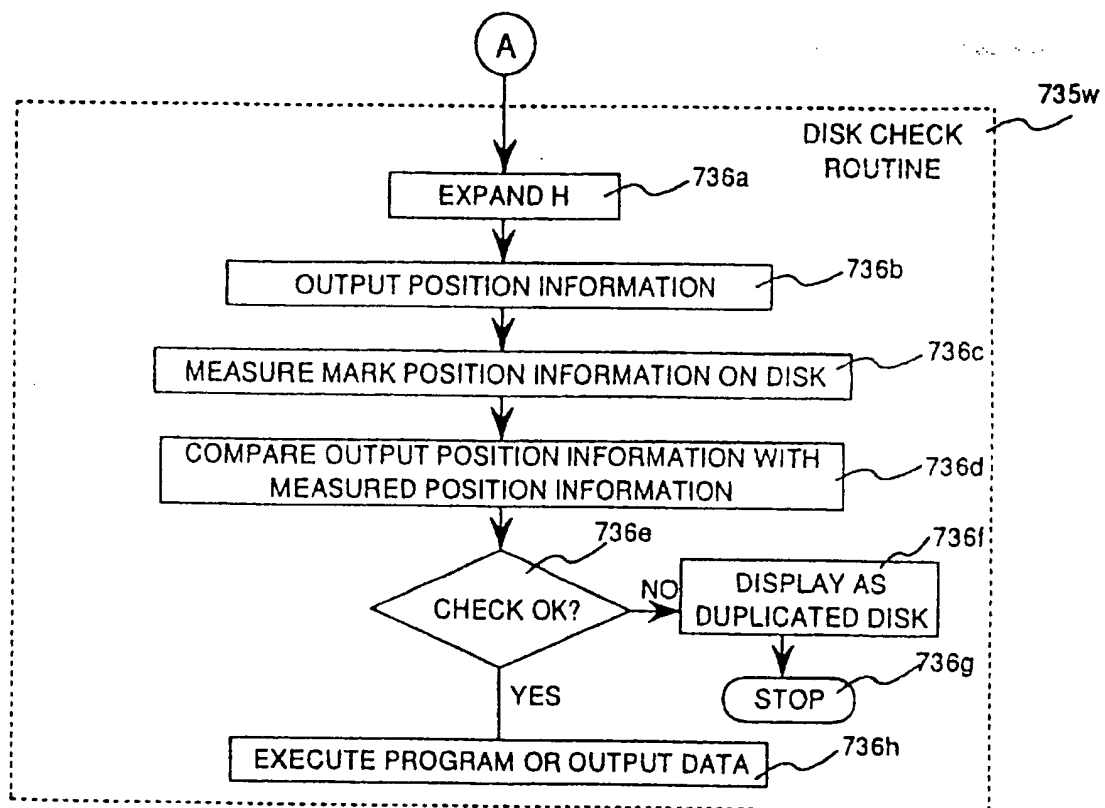


FIG. 24

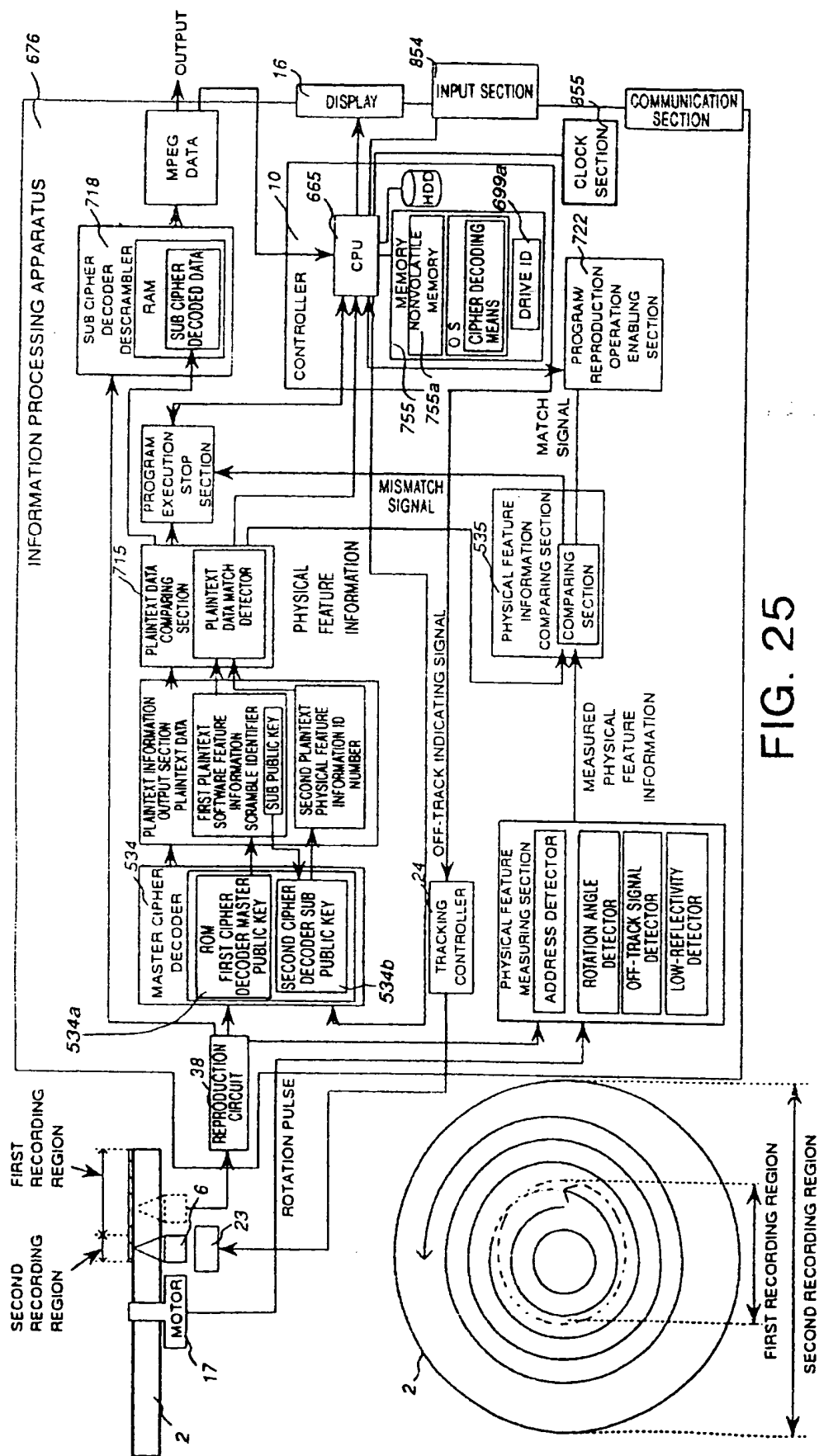
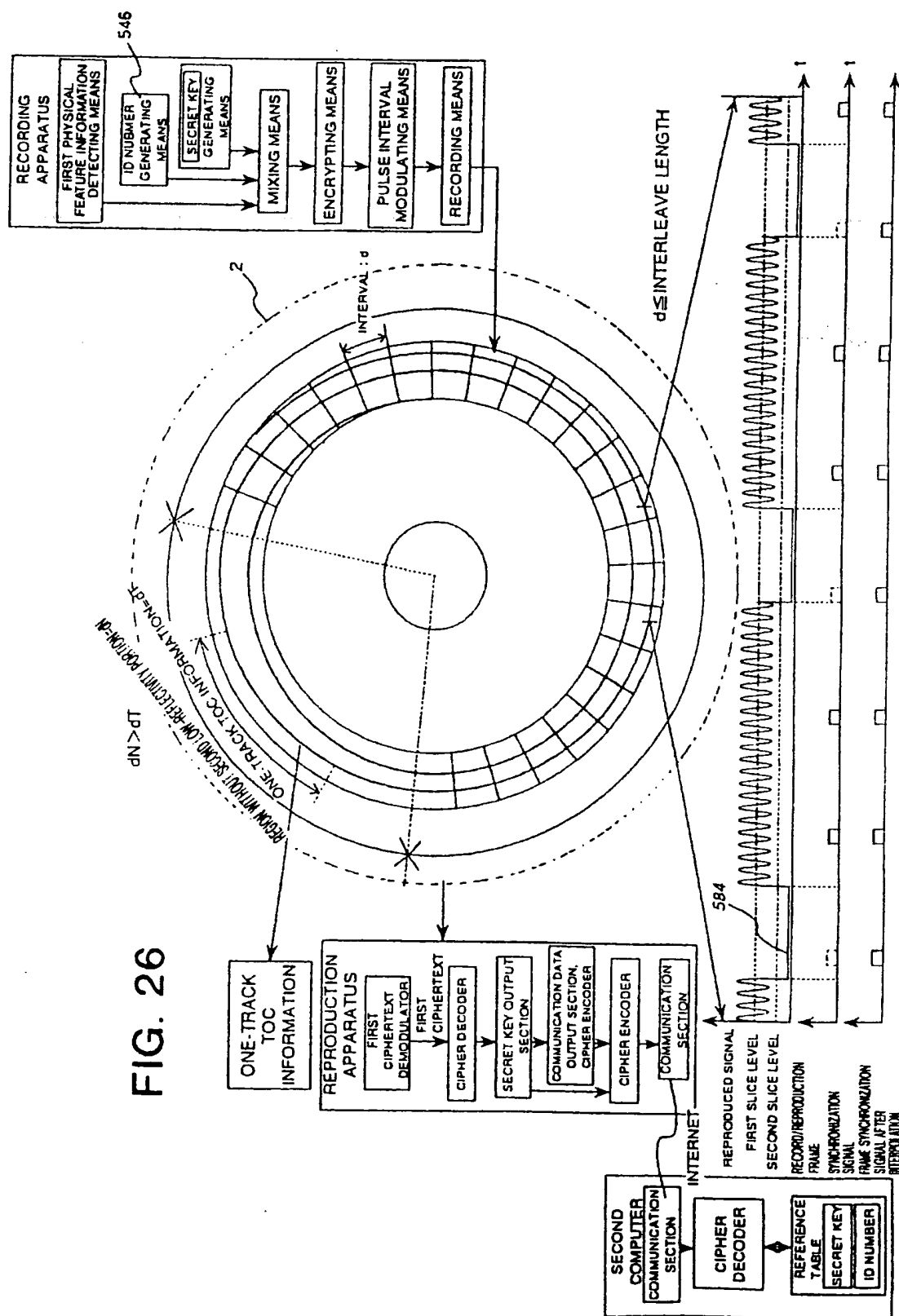
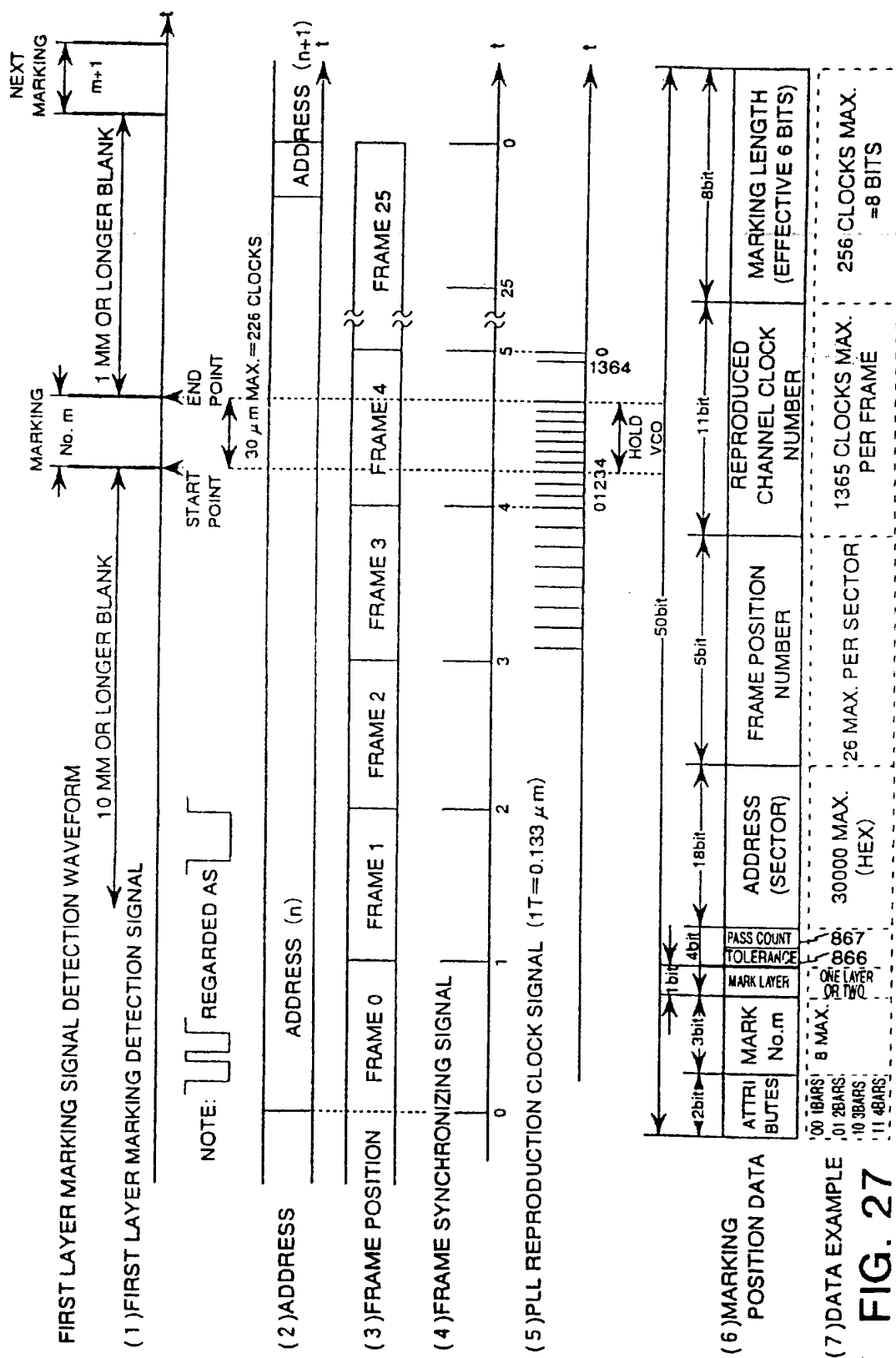
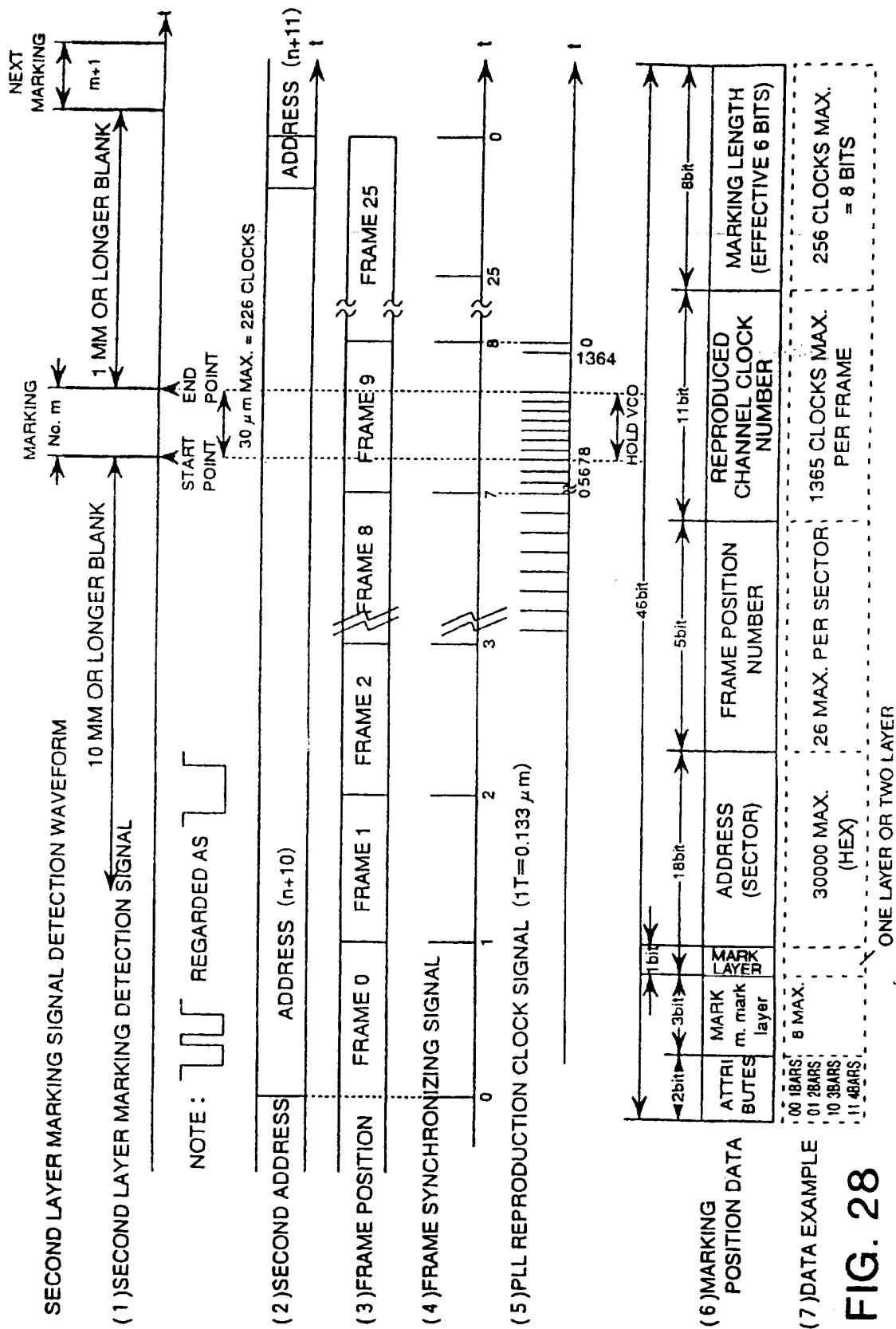


FIG. 25







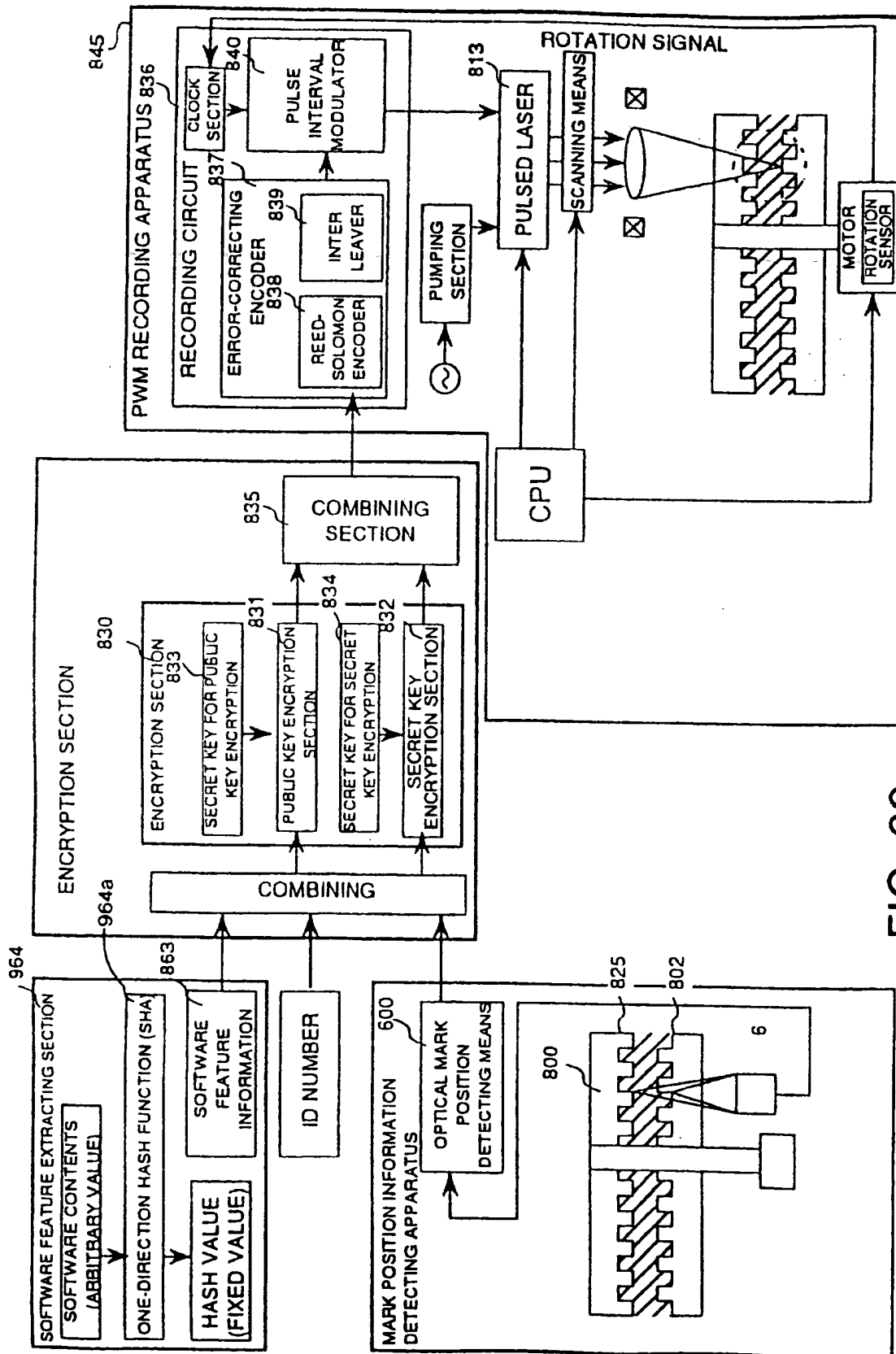
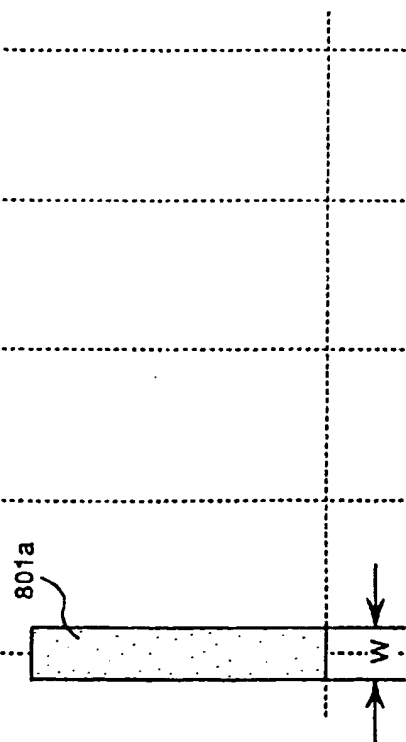


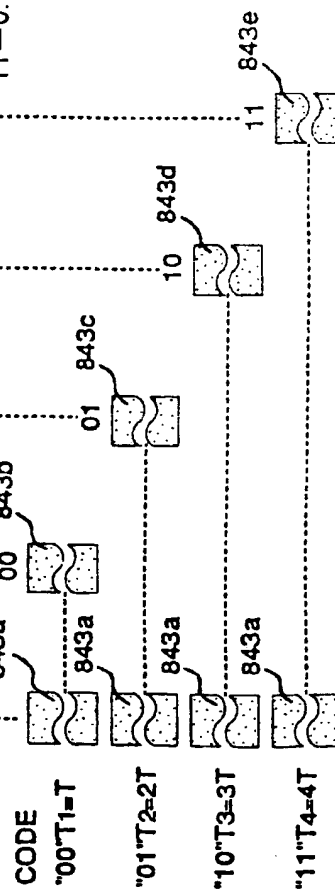
FIG. 29

CODE CLASSIFIED BY PULSE INTERVAL, 4-VALUE PWM RECORDING

CODE	00	01	10	11
------	----	----	----	----



$1T = 0.13 \mu m$



BARCODE LINE WIDTH VERSUS RECORDING DENSITY 842

LINE WIDTH W (μm)	PERIOD T (μm)	RECORDING DENSITY $\mu m/bit$	MAXIMUM RECORDING CAPACITY	LENGTH OF 1 KBITS
1 μm	2 μm	2.55 μm	56Kbit	2.5mm
3 μm	6 μm	7.5 μm	28.2Kbit	5mm
5 μm	10 μm	12.5 μm	11.2Kbit	12.5mm
10 μm	20 μm	25 μm	5.6Kbit	25mm
20 μm	40 μm	50 μm	2.82Kbit	50mm

FIG. 30

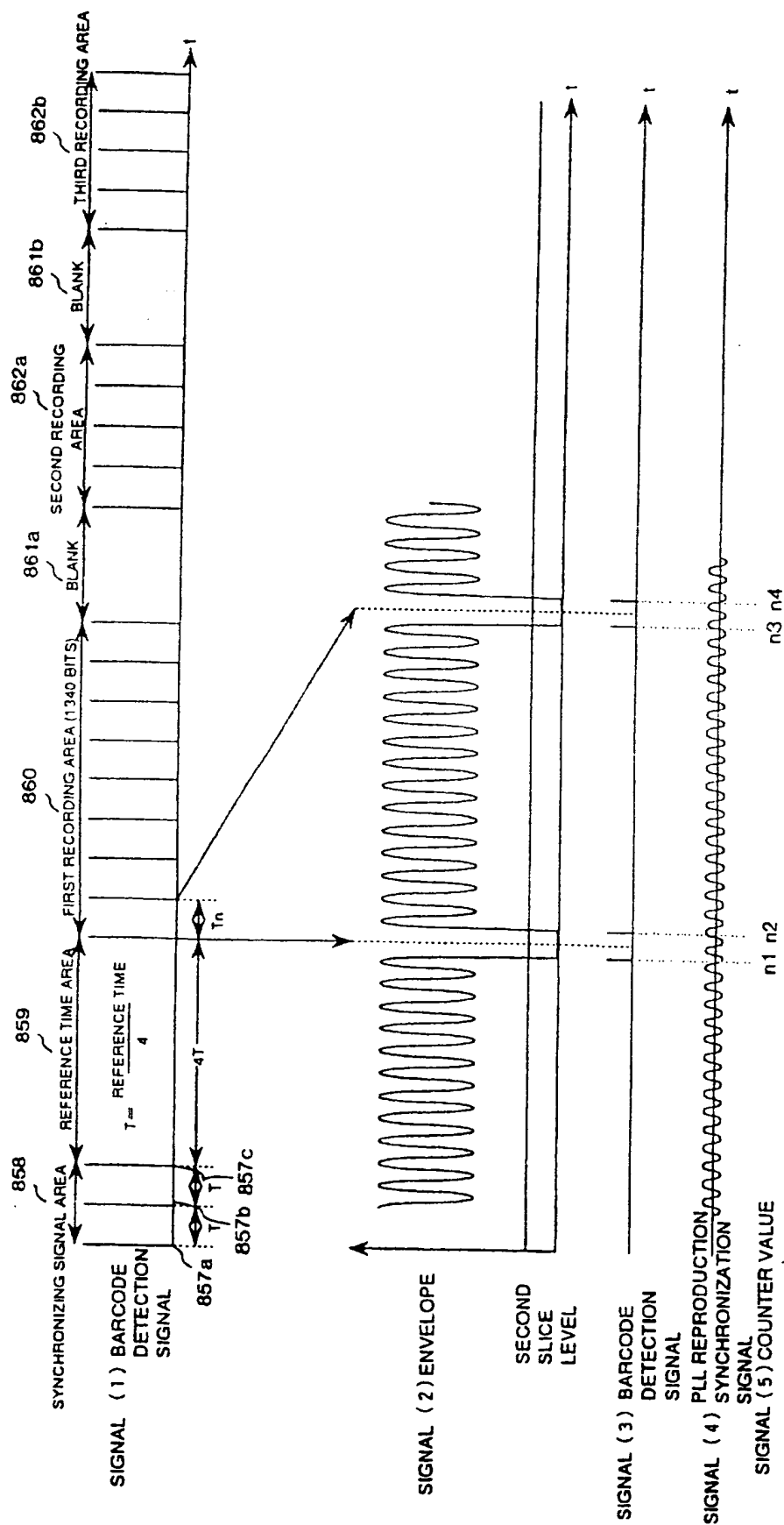
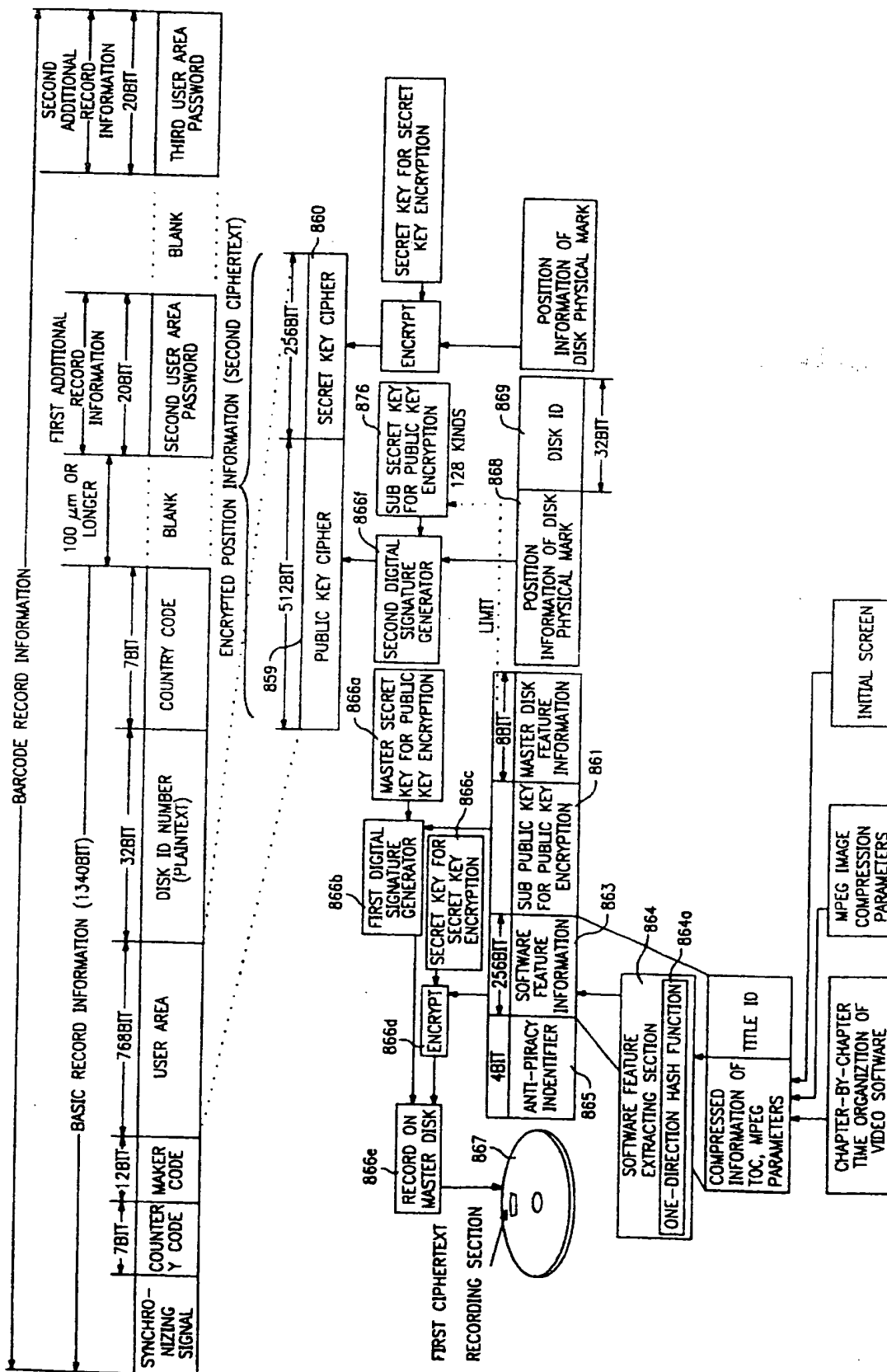


FIG. 31



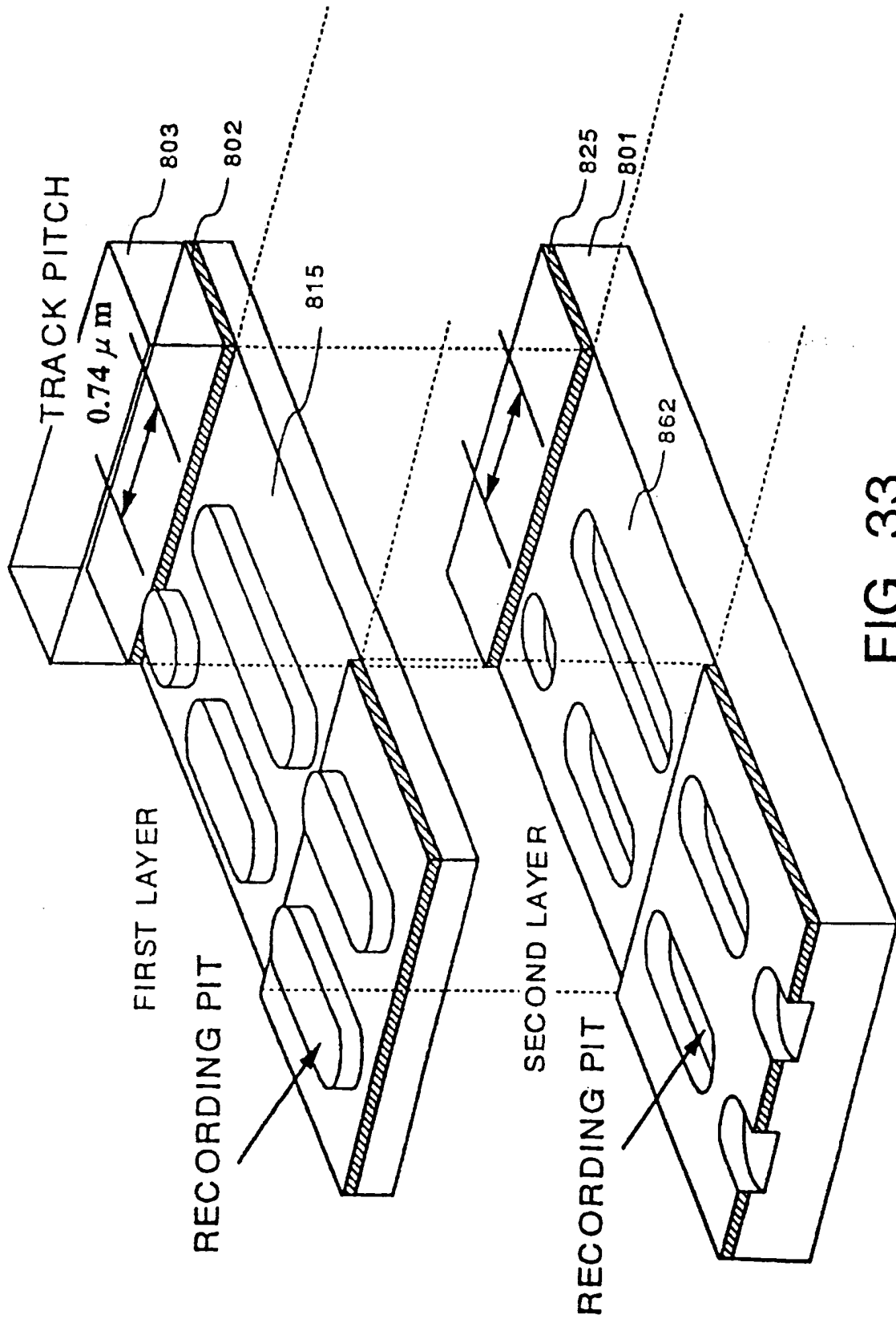
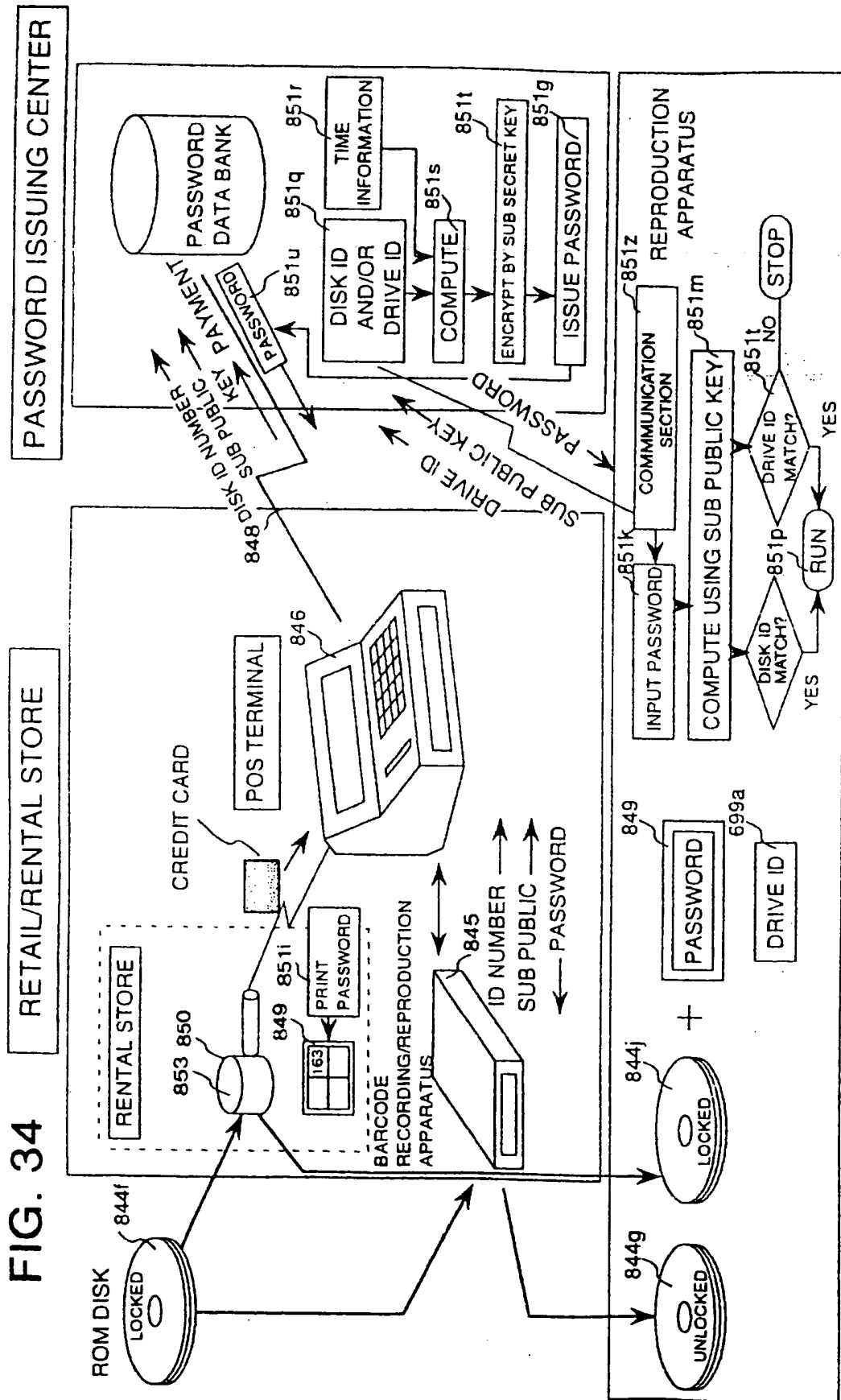
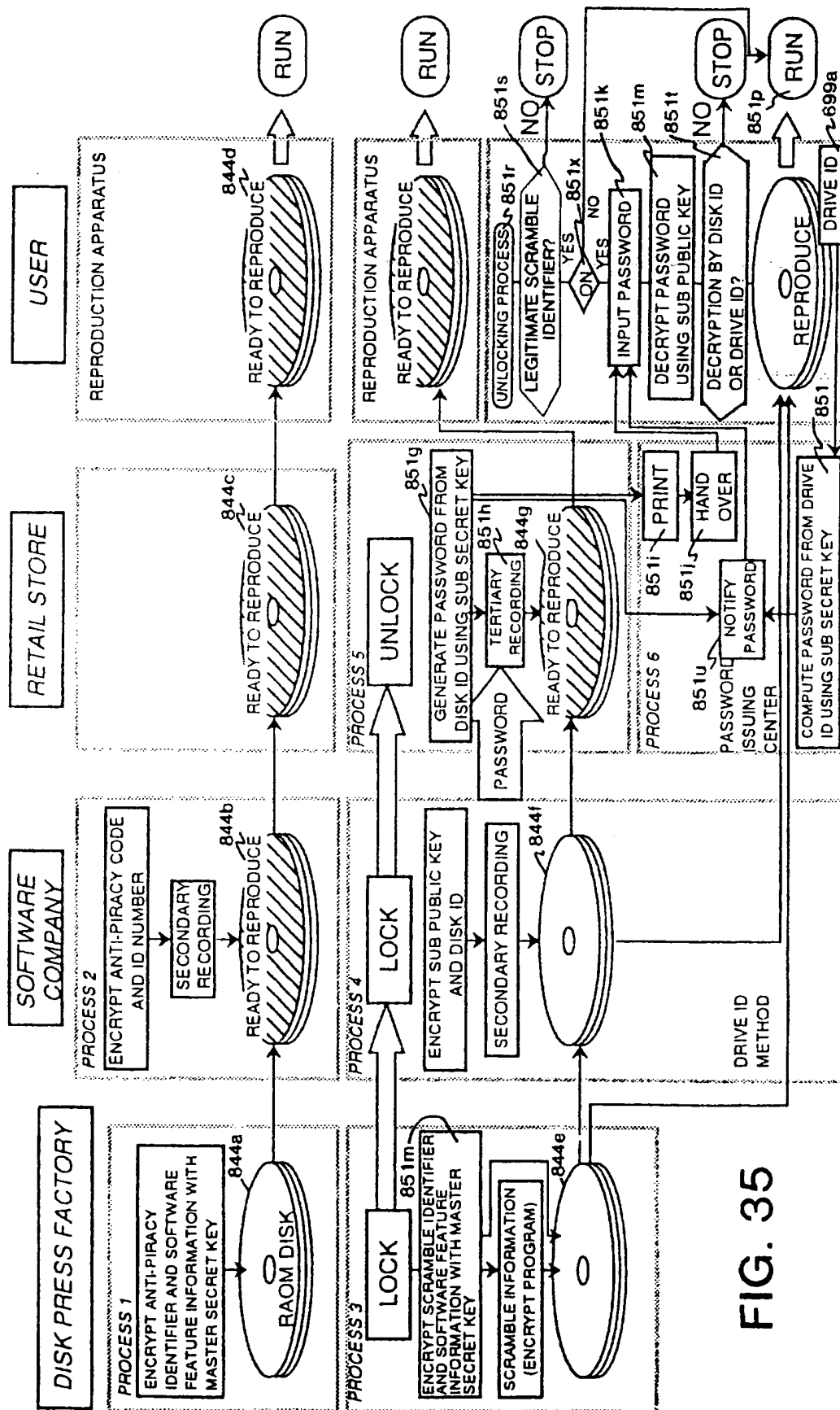


FIG. 33





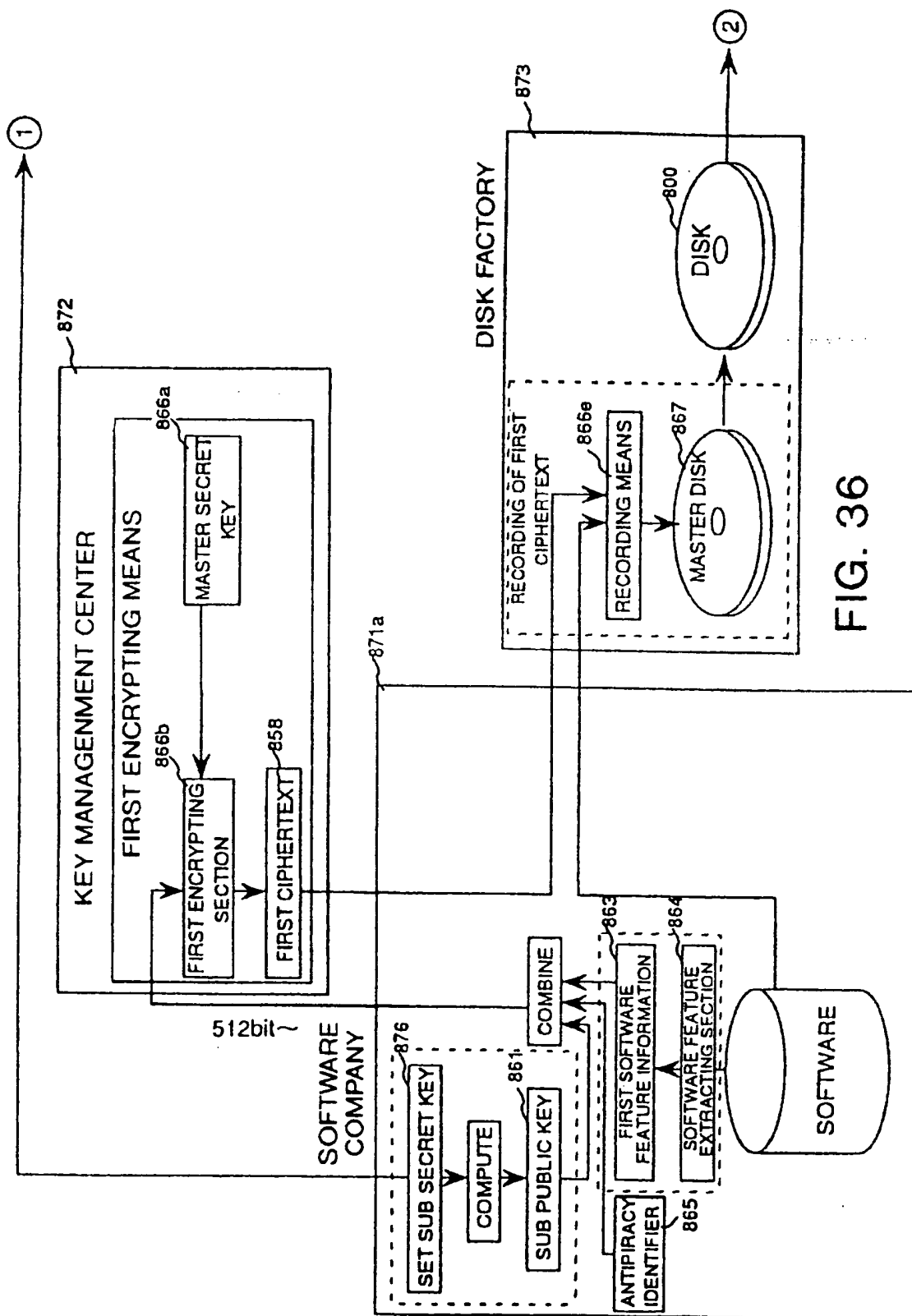


FIG. 36

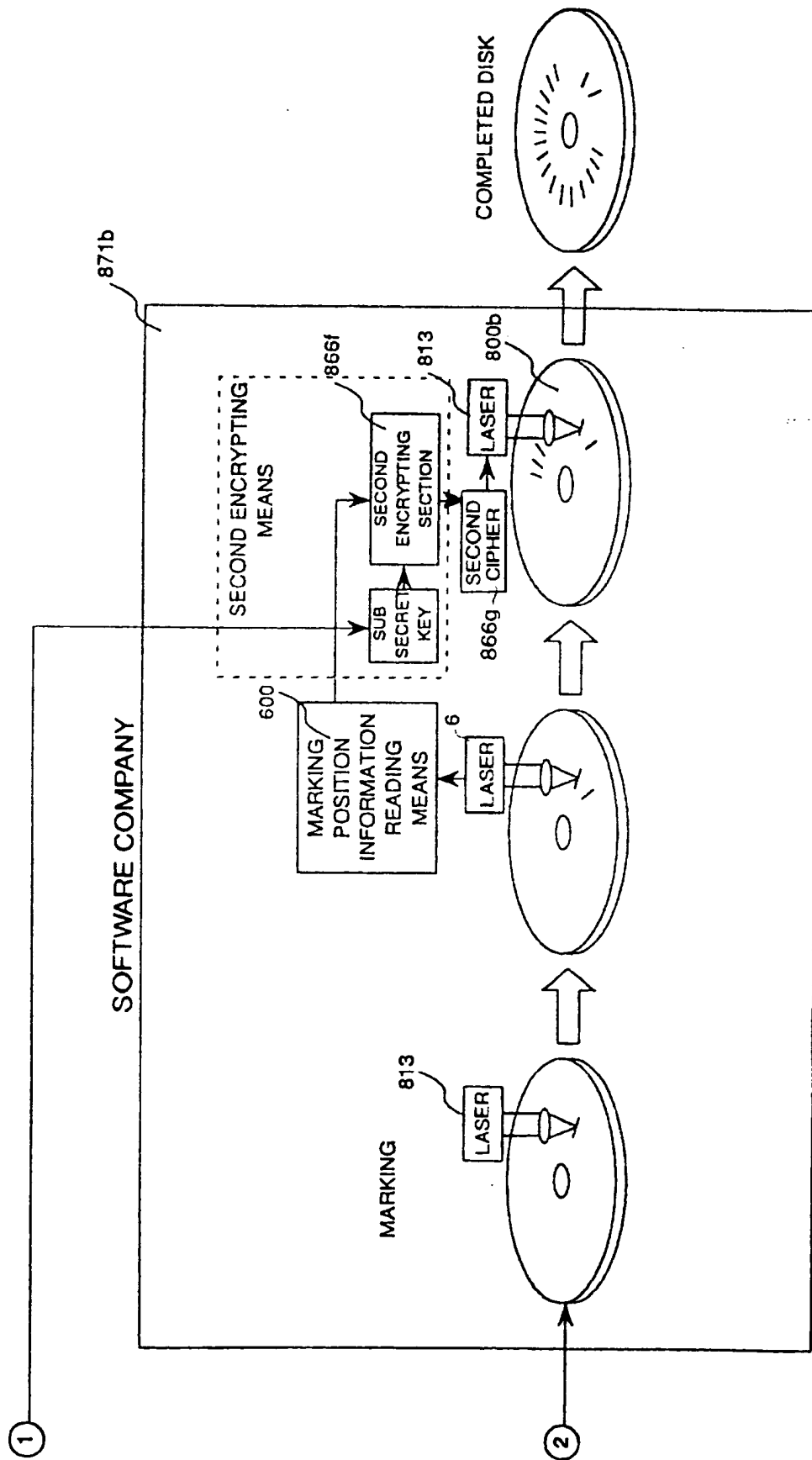


FIG. 37

FIG. 37 of 2,761,301

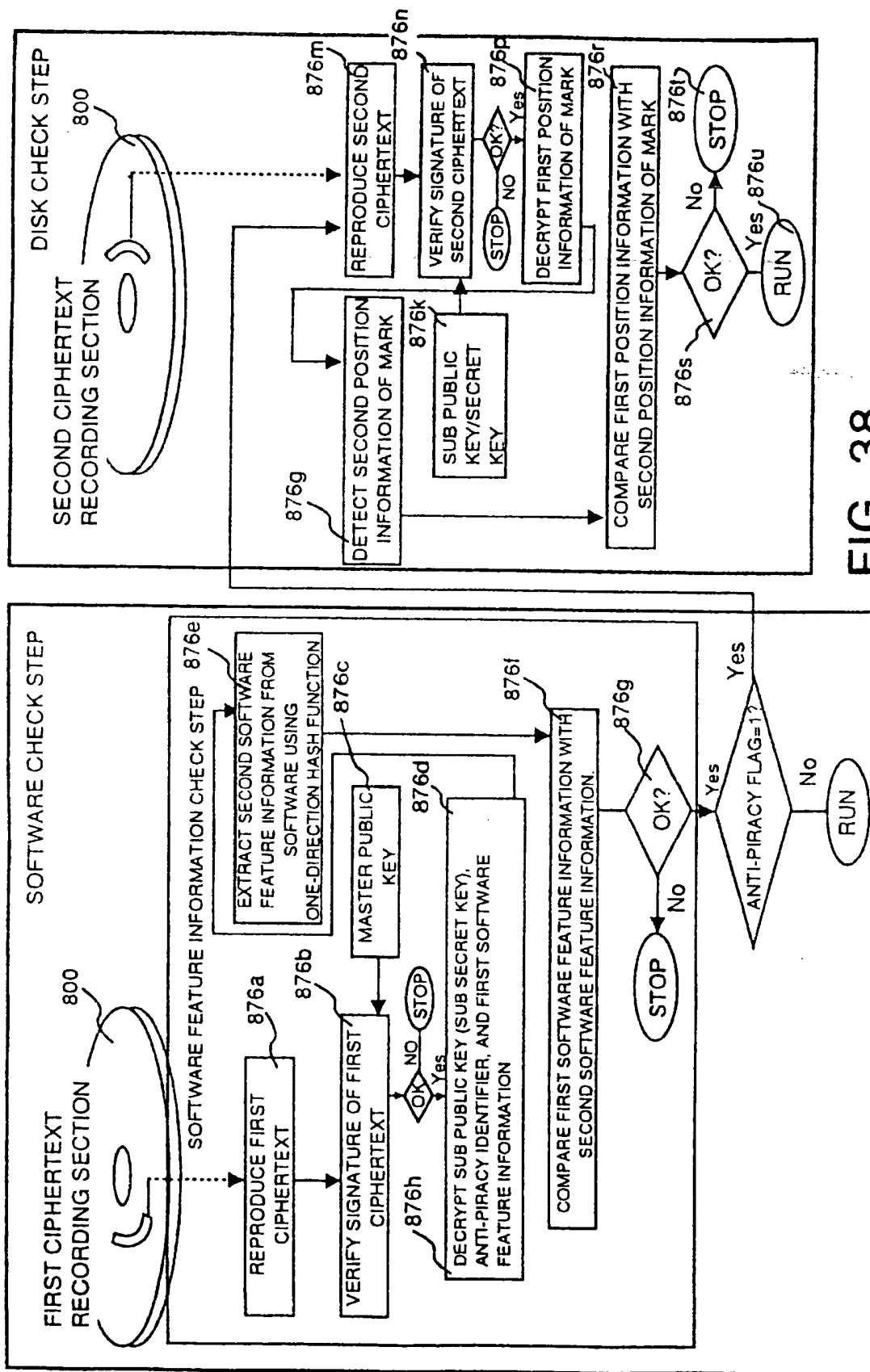
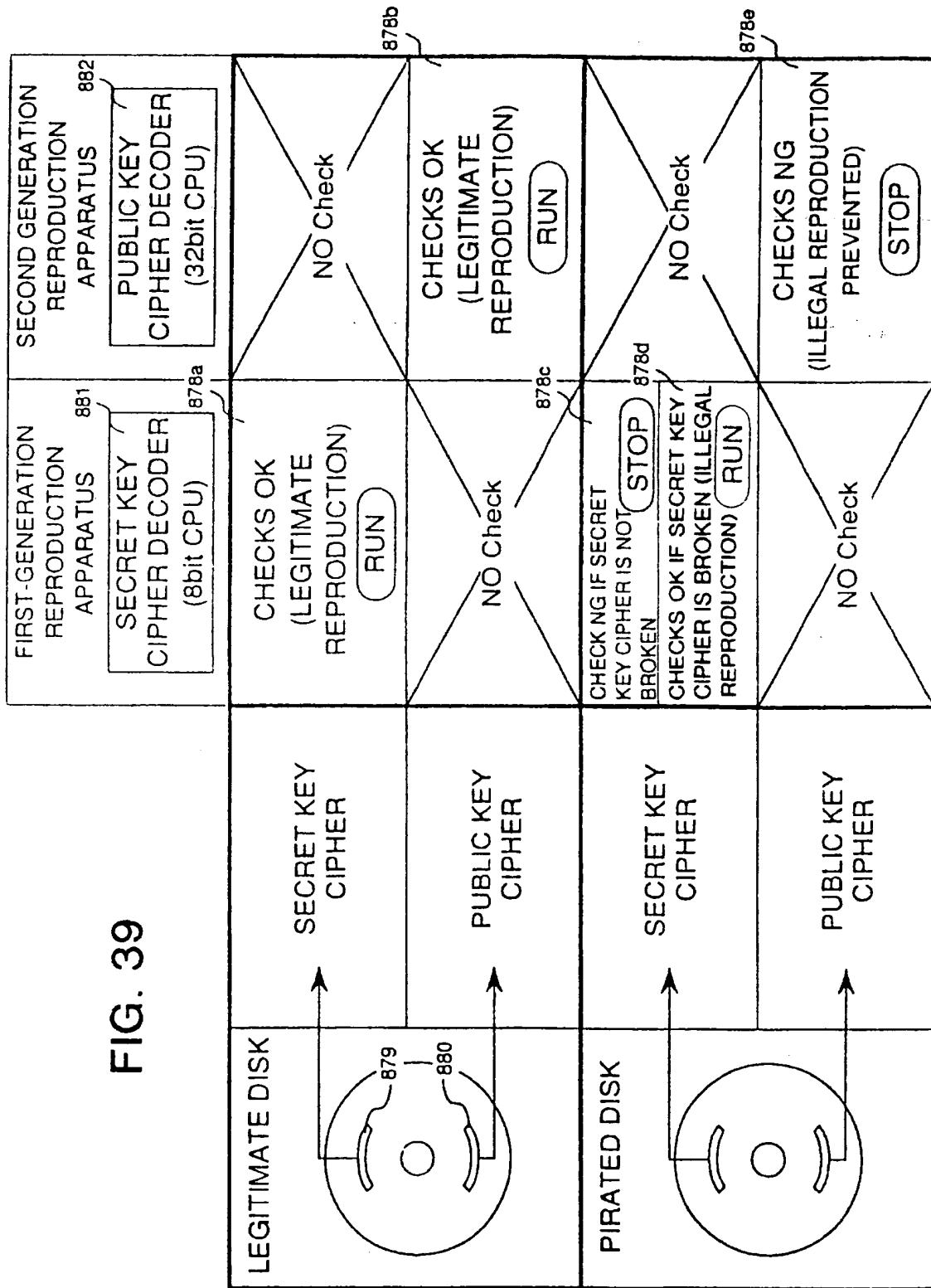


FIG. 38

FIG. 39



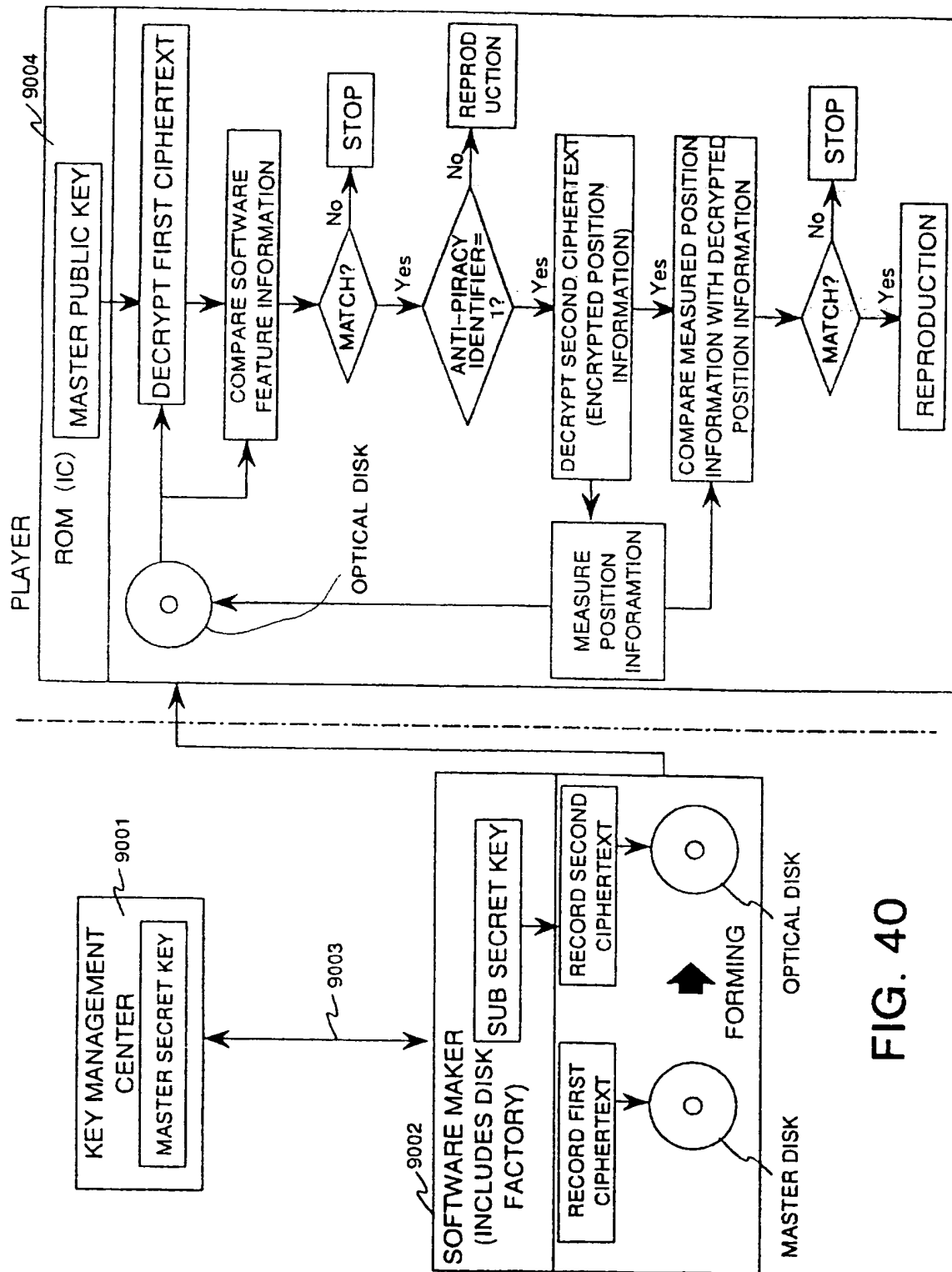


FIG. 40

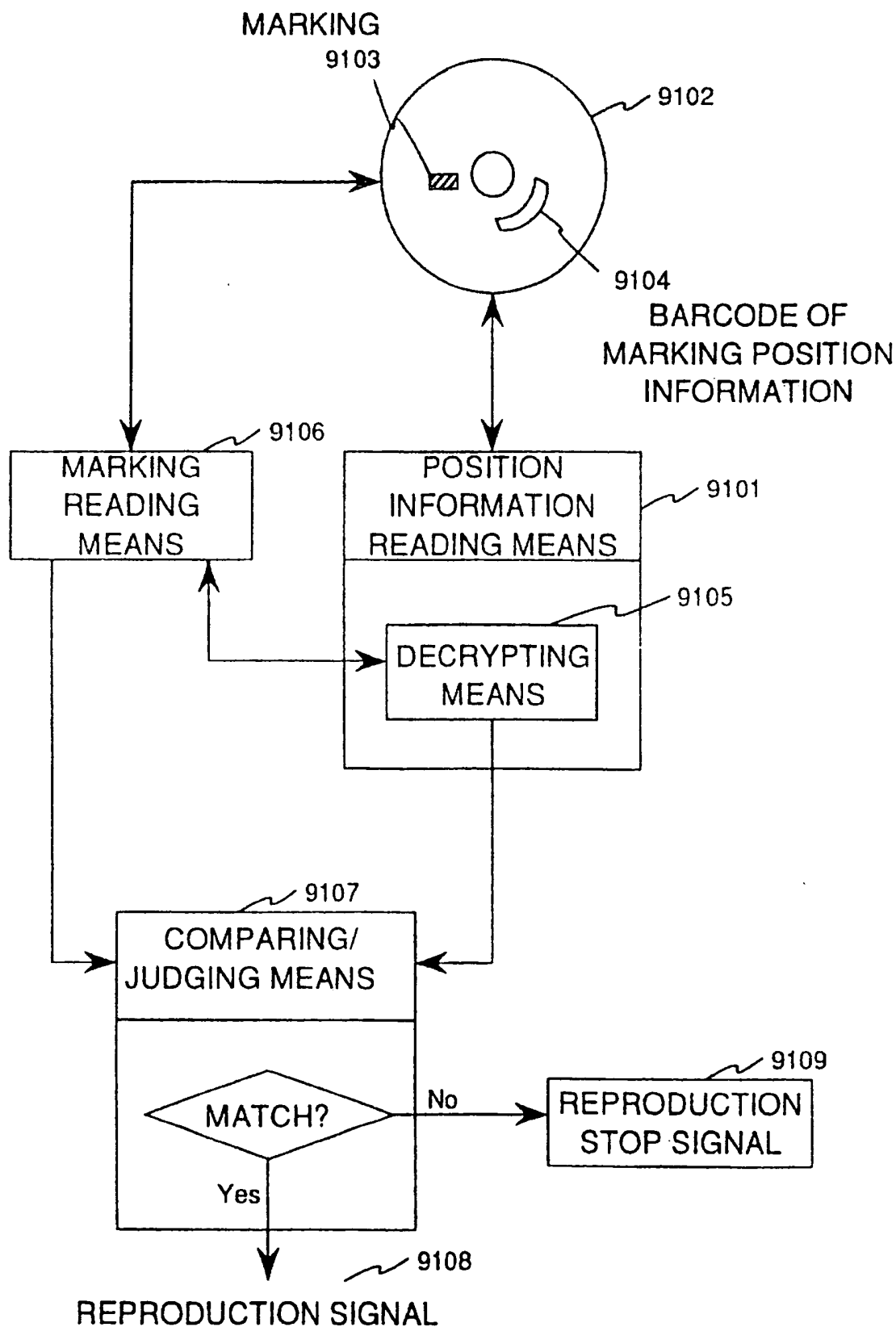


FIG. 41

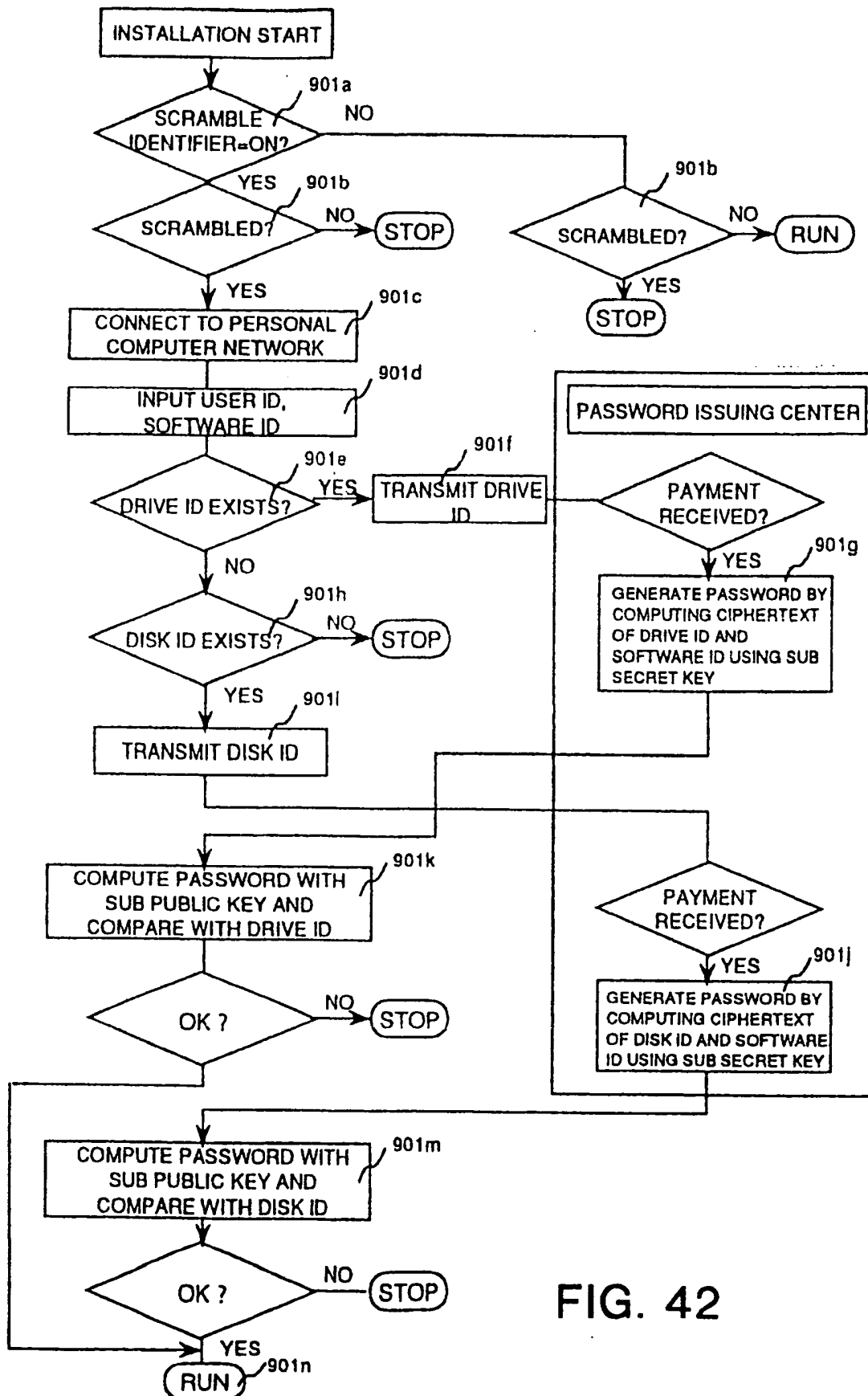


FIG. 42